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CENTRAL INTELLIGENCE AGENCY

# INFORMATION REPORT

COUNTRY China

وريا أثجاله

SUBJECT Monthly Reports of the Shanghai Power Company (1948)

PLACE ACQUIRED (BY SOURCE)

DATE ACQUIRED (BY SOURCE)

DATE (OF INFO.)

25X1A

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SOURCE DOCUMENTARY

Available on loan from CIA Library are the monthly reports of the Shanghai Power Company, for the year 1948. These reports contain information on the following subjects:

Revenues & Expenses (Compared with 1947)

Electric Demand, Output, Sales & Losses

Customers, Service Inspections

Employees

Operation

Charts

Peak Load Output - Monthly Employees

Appendix

Reports

Secretarial & Accountancy - S.P.C. & W.D.P.C. (Western District Power Co.)

Consumers! Monthly Report - S.P.C. Consumers! Monthly Report - W.D.P.C.

Generation Report

Distribution Operation Division - S.P.C. & W.D.P.C.

Larceny of Electricity

LIBRARY 5

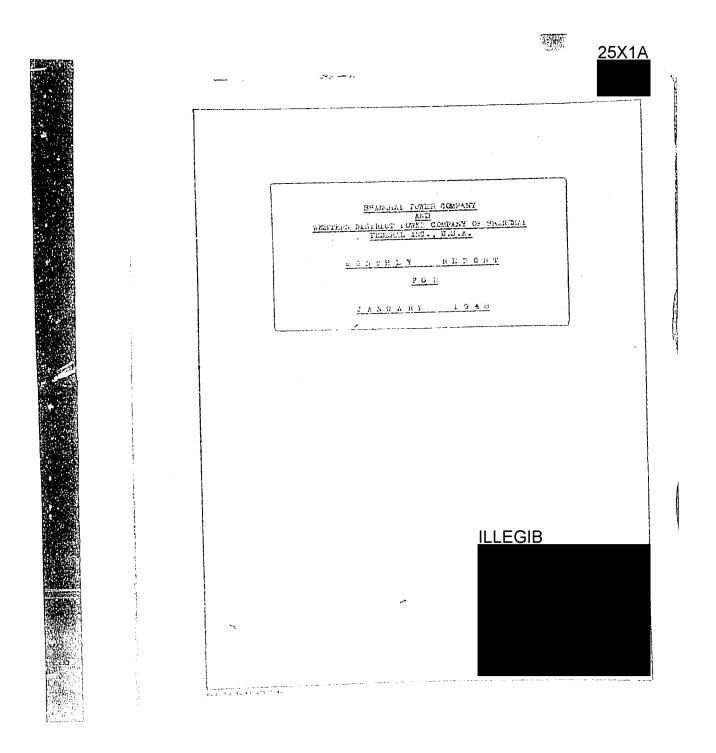
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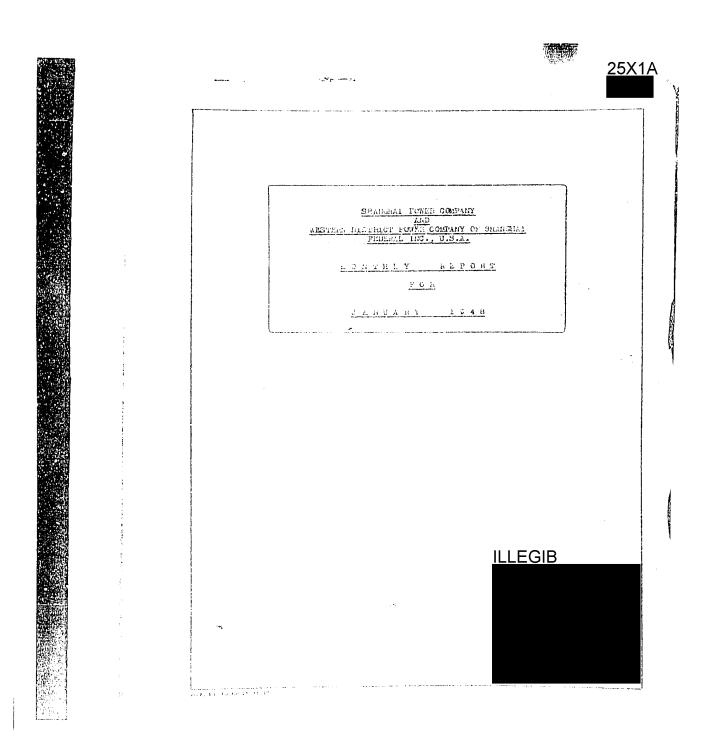
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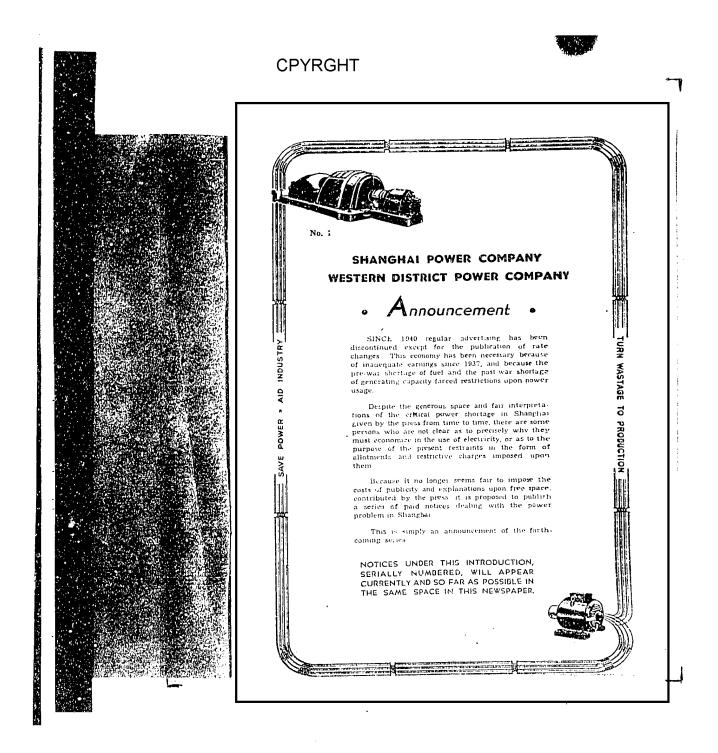


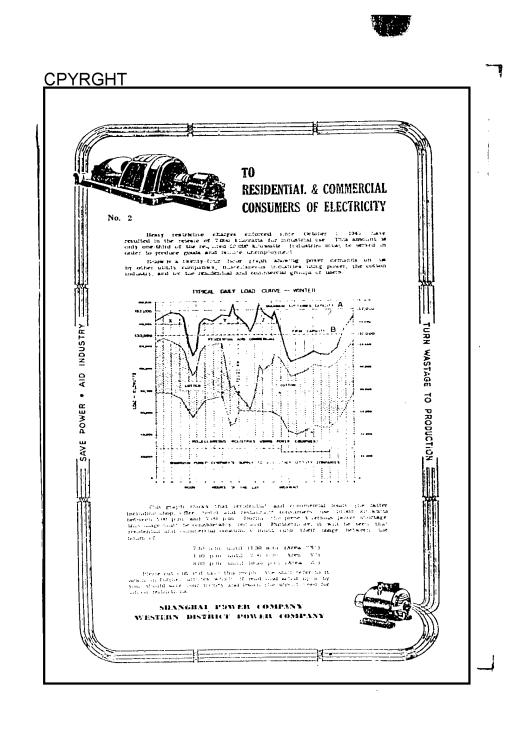
# ECONOMY CAMPAIGN NOTICES

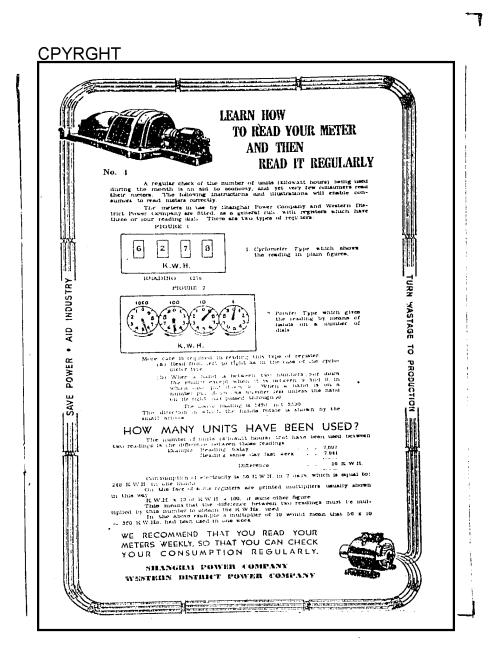
No. 1-11

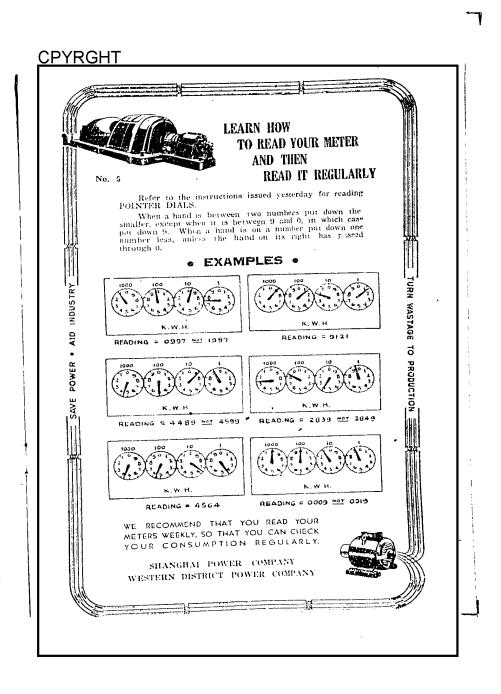
Published in the following newspapers from
January 17 to January 29, 1948, inclusive:
CHINA DAILY TRIBUNE
THE CHINA PRESS
NORTH CHINA DAILY NEWS
THE SHANGHAI EVENING POST & MERCURY

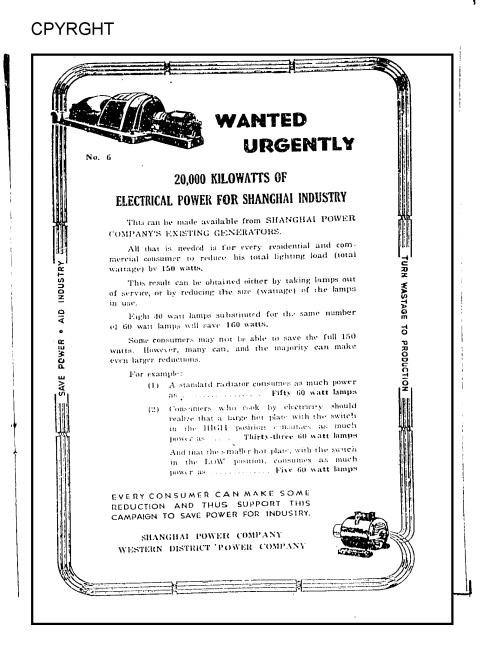
With the Compliments of CHINA COMMERCIAL ADVERTISING AGENCY

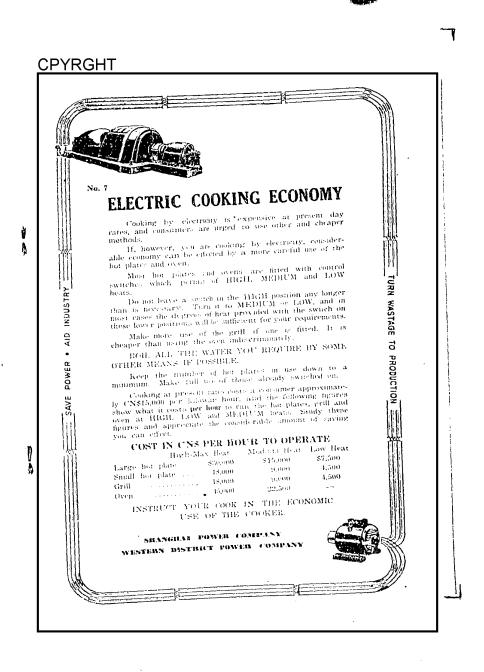


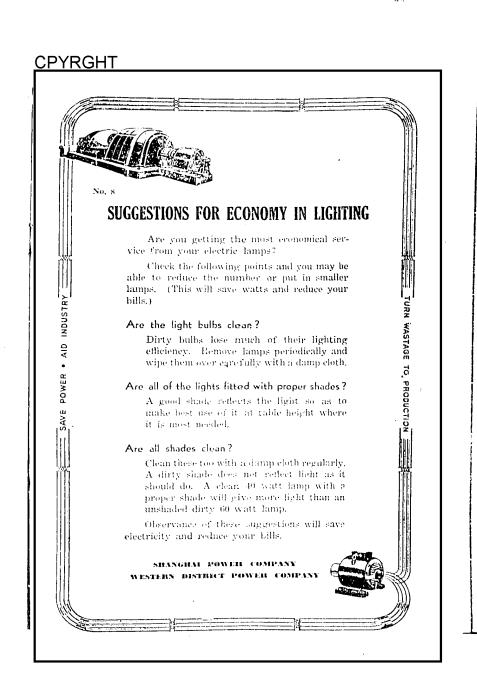


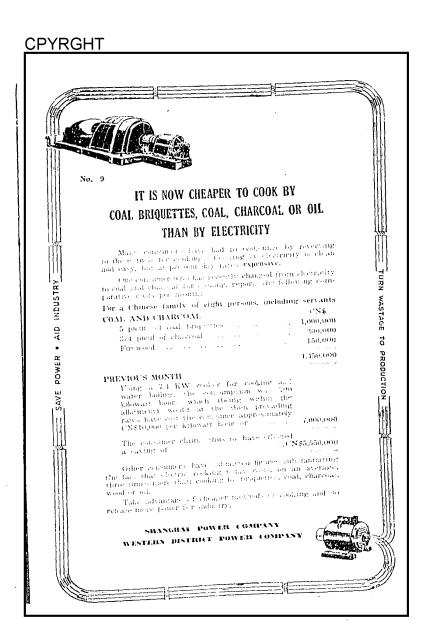


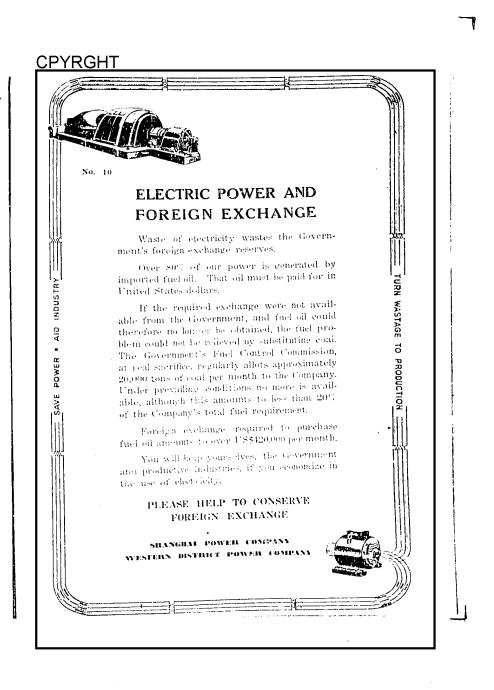


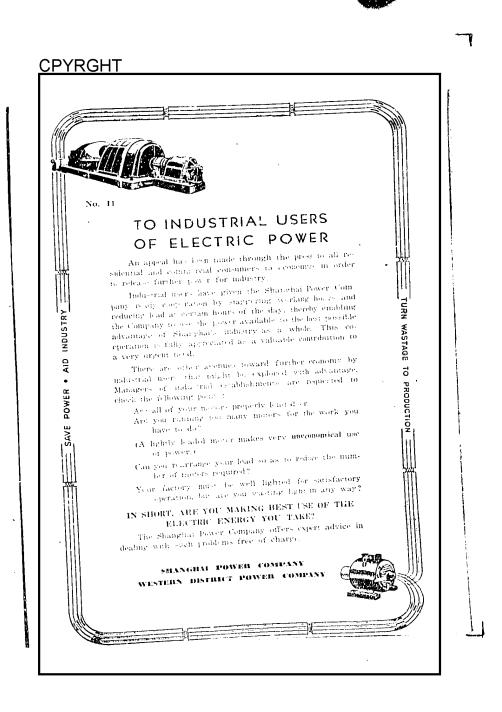












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Rovenuca & Expor	uses (Compared with 1947)	1	1
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	Furchase in MKWH	22	1
	Eistribution Longes in % of	20 20	1
Gastomers, Servic Bastomers	•	3 3 <b>A</b>	1 1
Service Inspec	tions	3B	R
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#### BHANGHALPOWER COMPAN

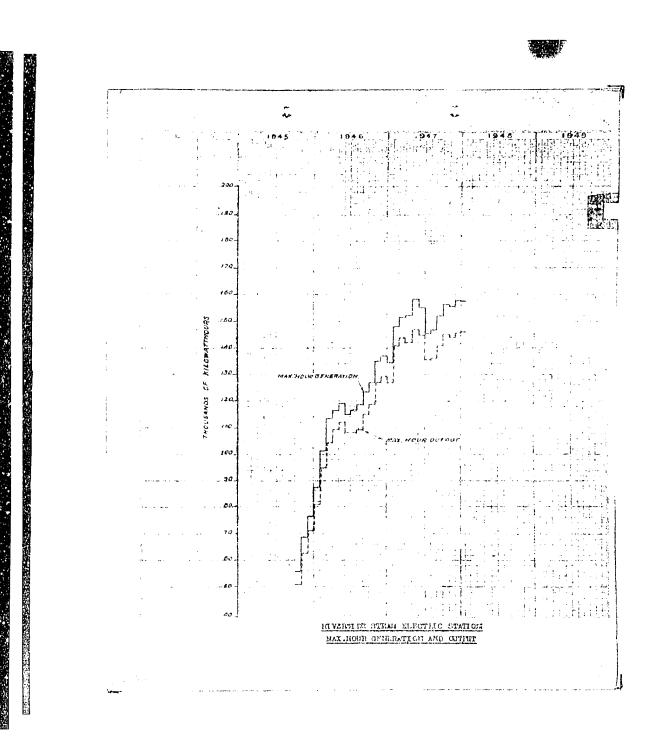
#### SUMBARY

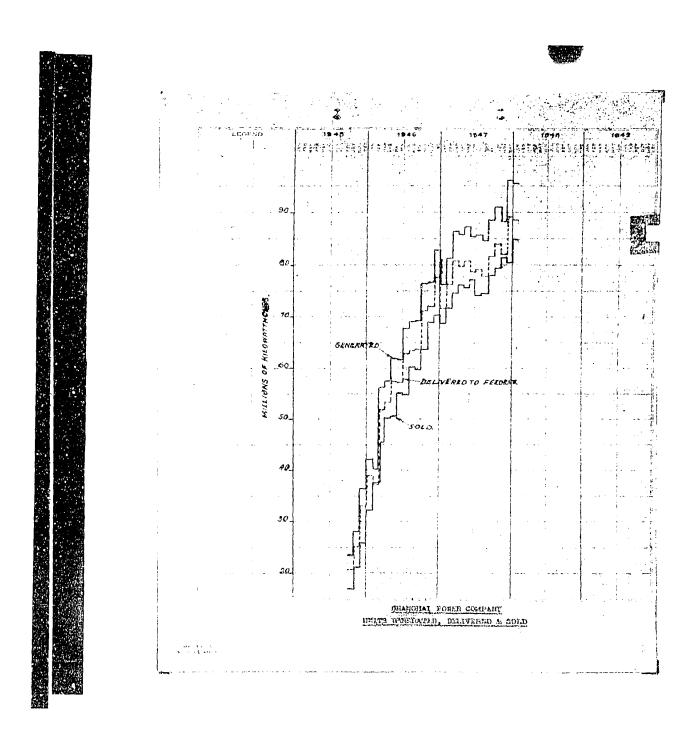
1.	POEVENUES & EXPENSES COM	PARED WITH 1947 (C3):		wonth of .	l anua TV
	Uporating Hevenues	(ca Figures in thousan	nd <b>a</b> )	1948	1947
	S.P.C. W.D.P.C. Combined **		C#	473,084,099 116,809,724 492,443,225	0\$ 7,506,590 1,824,876 0\$ 8,249,075
	Operating Expenses				
	S.P.C. n.D.P.C. Combined ++			329,656,481 111,649,591 343,860,474	03 7,350,038 " 1,421,546 03 7,689,193
	met from uperation				
	H.P.C. #.D.P.C. Combined ++		<u> </u>	143,427,618 5,160,133 148,587,751	156,552 403,330 03 559,882
	++ into	r-Company itema Eliminat	ud.		
2.	ELECTRIC SERALL, WEPUT	, SALLS LOSSES:			
	2A maximum nour in AWh				
	S.P.C. niverside and w.D.P.C. max. nr. D	x. nr. Semeration omand in Am		157,797 34,222	134,098 30,780
	28 Met Output or Furchas	o in mawn (a.=1000)			
	S.P.C. Not output	rom s.P.C.		88,640 20,027	71,455 14,726
	20 Units Hold & Accounte	d for in mr.Wh			
	S.P.G. (including a $n_0$ D.P.G.	ales to W.D.P.C.)		84,932 x 19,219	68,864 13,909
	RD Transmission of Distri	bution Losques in			
	S.P.C. (W.P.P.C. co n.D.P.C.	naidered as one customer	7)	4.2 4.0	3.0 5.0
3.	CUSTONIS, SERVICE INSI	ECTIONS:			
	3. Guatomora 3.P.C. n.D.P.C. Gombino			99,907 22,285 122,191	97,273 20,734 118,000
		ntom_Company (tex	ma ril	iminated.	

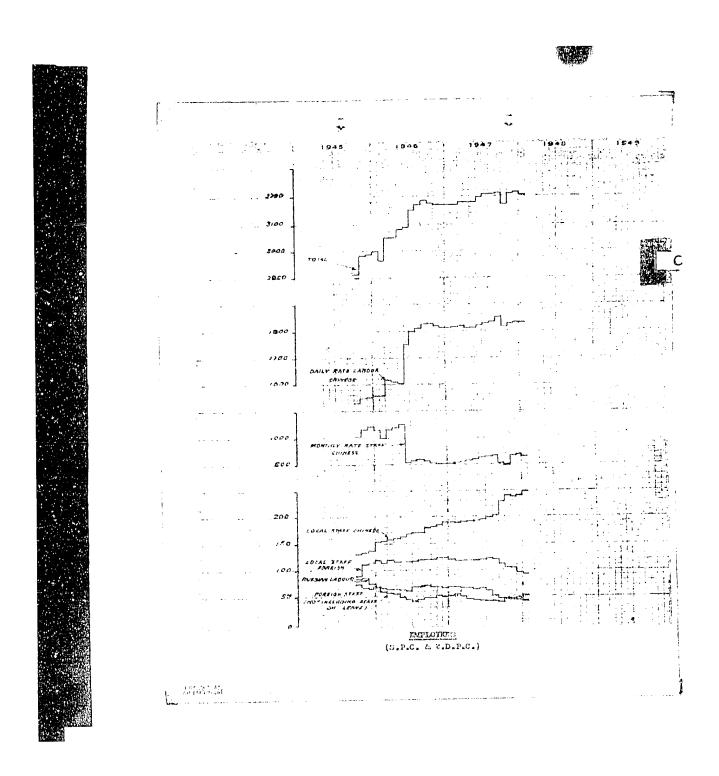
<sup>++</sup> inter-company items Eliminated.

x including 920 maWH losses in synchronous plant for Power Factor improvement.

3h Service inspections	(C3 rigures in thous	anda i	<u>ont</u>	h of Jan	1947
Numbor	(04 1184101 11 111010	,			
	3.P.C.		5,0	43	5,946
	h.D.F.C.		1.0	60 3	3,021
	10tai		0,7	42	8,967
irrogulartics					
	B.P.C.		7	39 .	1,024
	m.D.P.J.			<u>18</u>	566
	rotul		9	57	1,592
Cash necovered (C#)					
	S.P.C.		114,4		3,765
	w.D.P.C.		24,7	24	1,615
	10 tul		139,2	05	5,380
No. of Rocoverion					0.4
	S.P.C.			27	26
	H.D.P.C.			<u>8</u> 36	$\frac{7}{33}$
	iotal			36	33
8.P.G. w.D.P.G.				181. 25	3,043 127
w.D.P.C.	including staff on le	onvo j	1	25	
w.D.P.C. lotal + ()	including staff on le	onvo j	1	25	127
*.D.P.C. 10tul + ()	including staff on la	o 6 V O J	3,E	25 04 +	127
*.D.P.C. 10tal + ()  *.Dept		onvo j	194	25 04 +	127 3,170
*.D.P.C. 10tal + ()  **NOTE: TOTAL + ()  **NOT	(WM)	οανο j	194	25 04 + 1 8 Ø 500 1	127 3,170 1947
n.D.P.C. 10tal + ()  5. mayriest DF OF heart CAS:  (1) concrating capacity  mamo plate rating name plate rating	(AY) (AYA)	οανο j	194 171,	25 04 + 1 8 Ø 500 1 150 1	127 3,170 1947 58,500
o.D.P.C. rotal + ()  neversible Observations:  (1) concrating Capacity  Mamo plate rating	(ava) (ava) (bya)	oavo j	194 171, 210,	25 04 + 1 8 Ø 1 500 1 150 1 080 1	127 3,170 1947 58,500 95,000
n.D.P.C. 10tal + ()  n.D.P.C. 10tal + ()  nuversible Officerions:  (1) concrating capacity  mamo plate rating namo plate rating working rating - min norking rating - summ	(ava) (ava) (bya)		194 171, 210, 213,	25 04 + 1 8 Ø 1 500 1 150 1 080 1	127 3,170 1947 58,500 95,000 98,370
n.D.P.C. rotal + ()  n.D.P.C. rotal + ()  nuverestor Operations:  (1) concrating dapacity  mame plate rating name plate rating working rating - sum norking rating - sum  p Axelue	(AW) (AVA) tor (AVA) nor (KWA) don 14-2, 14-6 o 14-2		194 171, 210, 213,	25 04 + 1 500 1 150 1 080 1 890 1	127 3,170 1947 58,500 95,000 98,370 76,180
*.D.P.C. 10tal + ()  5. HIVERSIDE OFERSTICAS:  (1) Concrating Capacity  Hamo plate rating Horking rating - Sim Horking rating - Summ  6 Axelue (2) Instantaneous rook of	(AM) (AVA) tor (AVA) for (KYA) don (G=2, li=6 & li=1		194 171, 210, 213, 190,	25 04 + 1 500 1 150 1 080 1 890 1	127 3,170 1947 58,500 95,000 98,370 76,180
n.D.P.C. rotal + ()  n.D.P.C. rotal + ()  n.D.P.C. rotal + ()  number of the departments:  (1) concrating departments  name plate rating norking rating - nin norking rating - sum  p Axelue	(AN) (AVA) tor (AVA) mor (KMA) dom no=2, no=6 on no=1 moretion (AN) WHI Output)		194 194 171, 210, 213, 190,	25 04 + 1 500 1 150 1 080 1 890 1	127 3,170 1947 58,500 95,000 98,370 76,180
## A.D.P.C.    Total + ()	(AW) (AVA) tor (AVA) nor (KWA) dos 10-2, 10-6 & 10-2 eneration (AW) WH Output) n output & Max.Hr.Out		194 171, 210, 213, 190, 160, 81	25 04 + 1 500 1 150 1 080 1 800 1	1947 59,170 1947 59,500 95,000 98,370 76,180 39,961 20,516 76,03
#.D.P.C.  10tal + ()  **Notation of the property of the partial of	(AW) (AVA) tor (AVA) nor (KWA) dos 10-2, 10-6 & 10-2 eneration (Au) WH Output) n output h Max.Hr.Out	ll. :put) <u>194</u> <u>Coal</u>	194 171, 210, 213, 190, 160, 18, 81	25 04 •	127 3,170 1947 58,500 95,000 98,370 76,180 39,961 20,516 76,03 1947
A.D.P.C.  10tal + (1)  Interestible Objectives:  (1) concrative capacity  Mamo plate rating  Morking rating - win  Morking rating - sum  Axelue  (2) Instantaneous rock of  (3) Efficiency (PTU puri  (4) Lond Factor (Fased of  (5) Fuel in tons of \$240  In stock at end of puriods of the stock of and of puriods of the stock of	(AW) (AVA) tor (AVA) for (AVA) don (G=2, AG=6 or G=1) whi Output) in output & Max.Hr.Out  Lbs.  combor 1947.	11. :put) Coal 21,360	194 171, 210, 213, 190, 160, 18, 81 011	25 04 + 1 500 1 150 1 150 1 880 1 880 1 110 1 872 .55	127 3,170 1947 58,500 95,000 96,370 76,180 39,961 20,516 76,03 1947 1947 2 2,0
#.D.P.C.   Total + ()	(AW) (AVA) tor (AVA) mor (KWA) dos 16-2, 16-6 & 16-2 moration (AW) twill output h output & Max.Hr.Out lbs. combor 1947.	11. Coal  21,360 9,154	194 171, 210, 213, 190, 160, 18, 81 011 2,516 31,011	25 04 +	1947 58,500 95,000 98,370 76,180 39,961 20,516 76,03 1947 12 2,64
### A.D.P.C.    Total + ()	(AW) (XVA) tor (XVA) nor (KVA) dos 10-2, 10-6 & 10-2 eneration (AN) WH (Output) n output & Max.Hr.Out  lbs.  common 1947. h noluding sundries)	11. :put) Coal 21,360	194 171, 210, 213, 190, 160, 18, 81 011	25 04 + 1 500 1 150 1 150 1 880 1 880 1 110 1 872 .55	1947 58,500 95,000 98,370 76,180 39,961 20,516 76,03 1947 22,2,4,1 5,2,4,1 5,2,4,1







# SECRETARY & ACCOUNTANCY JANUARY 1948 SHANGHAI FOWER COMPANY AND MESTERN DISTRICT FOWER COMPANY

#### Cash on Hand and in Panks - Shanghai

Current Bank Accounts	<u>s.F.C.</u> CH3	M.D.P.C.
Secretary & Treasurer	-	193,094,409
Hongkong & Shanghai Banking Corporation		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Conoral Fund Account	7,988,099,782	-
Fixed Deposit Account que 2.15.48	10,600,000,000	_
Chase Bank-Fixed Deposit Account to 2.28.48	10,000,000,000	
National City Lank of New York		
General Fund Account	::1,6::0,391	-
Demand Deposit Account	25,000,000,000	_
cm;10,000,000,000 due 2.2.43	• •	
00015,000,000,000 " 0.10.44		
Ranque Belge : our l'Etranjer		
General Fund Account	1,122,600	_
Fixed Deposit Account the 2.10.48	10,000,000,000	_
The Bank of China	11,190,110	-
The Chekiang insustrial bank, Ltd.		
General Fund Account	116,219,351,585	38,046,636,674
Fixed Deposit Account due 2.12.43	20,000,000,000	-
Compradore Cash on Hund	9,431,039,927	1,398,472
Total	208,672,984,395	38,2/1,129,555

### Romittances

During January 1948 the following remittances were obtained by us at the official open market rate of exchange.

#### Remittances to New York office

Amount Cate Rotarics Jan. 1-31 USU57,101.90 For various materials quechased in New York through Ebaseo International Jor/oration.

### Remittances to London Agent

Date	Amount		Remarks		
Jan. 1-31	<b>12,488-16-5</b>	For purchase Eatheson & Co		teriale in Londo.	n through
				on foe payable t Central Bank of	
			Thousand CK	Exchange Rate	<u>U3\$</u>
Balance of Add January		ember 31, 1947	41,983,884 2,420,000 44,403,884	90,000 121,000	466,487.60 20,000.00 136-137.60



The difference in exchange amounting to CN311,461,116,000 was charged to Miscellaneous Suspense - Exchange Adjustment and subsequently transferred to Exchange - Het.

#### Accounts Payable

Unpaid fuel bills as at January 31, 1948, were as follows:

Import Duty on Fuel Oil
Estimated unvaid Juty

- 00.320, A2A, 072, 385

#### Accounts Receivable ! Collections

The total amount due from consumers as at January 31, 1948, excluding municipal and 05:303,132,%5,000 interconjany sales due from Mestern District Power Company of Shanghai was 00:592,408,039,000. The amount due from the Eunicipal dovernment for both companies was 00:320,410,956,000.

During the month, a total of 105,310 bills were sent out and the total amount billed for both companies, excluding intercompany sales, was CNG594,543,655,900. Our each collections during the month amounted to a total of CNG415,739,465,600.

### Custamers! Deposits

Deposits collected during the month for both companies amounted to CN945,521,000 and refunds to SN03,302,000. The balance of deposits held against service charges for both companies amounted to SN07,600,290,000 of which the amount of CNS 27,896,000 (nominal value) was in the form of securities serregated as follows:

	<u> 3.F.C.</u> 011.3	<u> </u>
S.M.C. Debentures	12,620	<u></u>
Bank Guarantee	56,800	25,027,600
S.F.C. E6 Silver Freferred	2,050,720	572,600
Shanghai Telephone Co. Shares	2,100	-
S.P.C. First Mertgage Jebentures Dollar Series, due 1973	, 55% 131,300	1,2,000
	2,253,540	25,642,200

#### Payroll

Our payrell for the month with high cost of living index 95,200 times basic (scaled down in accordance with Eunicipal Government formula) totalled CH\$50,899,339,000.

#### Rate Revision

Due to increased cost of operations, the Government approved a further revision of our rates and brought our rates for ordinary consumers up to CNN6,900 per KWM effective from January 6, 1948. The Consumers' Engineering Dapt. monthly report will give further details on this matter.

BUANGHAL POWER COMPANY

#### Contingency Reserve

During the month, a total of CH466,970,845,000 was set aside as Contingency Paserve and the amount charged off from Suspense to current month operating expenses was CH416,970,845,000 based upon the following calculations:

Balance on books before adjustment Balance adjusted to Jan. 31 exchange rate of CMM121,000 64,996,344,000

Balance charged to Operating Expenses in January

UN\$16,970,845,000

#### Employee Pension & Retirement Reserve

A total of CNAIS, 366, OCC, OCC was set aside as provision for this reserve in the current month based upon the following calculations and charged to operating expenses.

Total entimeted potential hisbility for Pensions

0110181,500,000,000

USD1,500,000 at 121,000
Total estimated potential liability at December 71, 1947
in respect of Retirement Gratuities for Local Appointees
& Regular staff = basic CN\$3,007,394 at Jan. N.C.L. 95,200

286, 301, 000, 000

Less accrued to becember 31, 1947

CHS467, 804,000,000 27,019,000,000

Amount to be accrued ever two years from January 1, 1940. to December 31, 1949

31,444,000,000 COO

January projection = 1/24 of total

CN 18,356,000,000

#### Dividend Equalization Reserve & General Reserve

During the month we set aside CNIS,042,000,000 for Dividend Equalization Reserve and SNI2,521,000,000 for General Reserve. The increases over the respective last month figures were mue to the revision of the official open market rate of exchange from CNI90,000 on December 31, 1947, to CNI21,000 on January 31, 1948.

#### Material Replacement Reserve

A total of 3N\$10,095,431,000 was charged to this reserve based upon the comparison between issues at original and replacement costs.

#### Cagualty and Insurance Reserve

The current month provision for this reserve was CM\$605,000,000 based on US\$5,000 at the exchange rate of CM\$121,000 and charged to operating expenses.

## Chinese Government Profits Tax

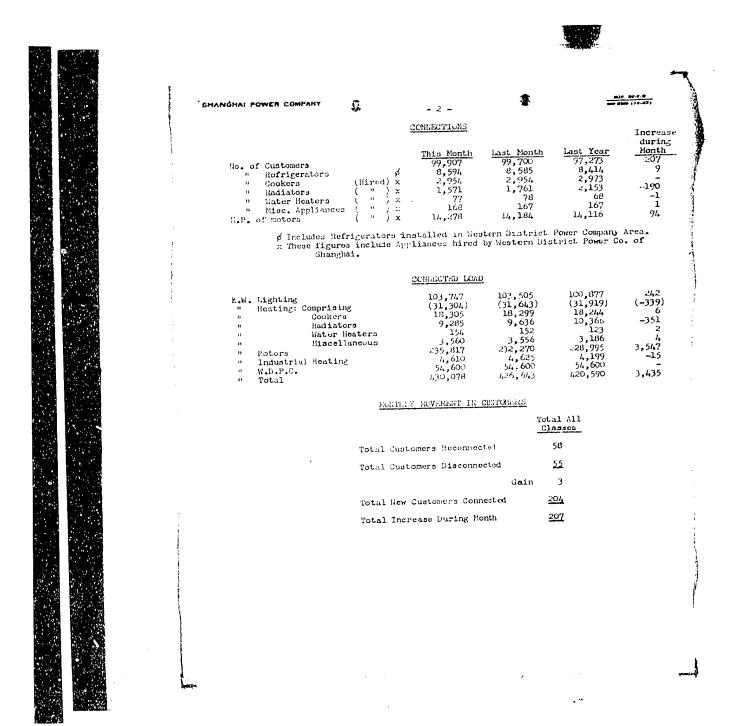
A total of CN\$36,864,000,000 was accrued in the current month for this tax, representing 25% of our estimated taxable income of CN\$147,456,108,000.

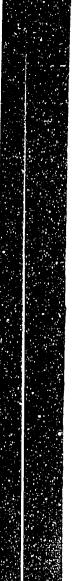
a. Kanad Long

February 26, 1948

A. Kendal Ward
Socretary & Treasurer

ANGHAI POWER COMPANY				1 20 F.0
**		march ), 194	d <sub>4</sub>	
<u>ochat</u>	TARRET MONTHLY LESPON	T FOR JANUARY		
	SHAHGHIA POWNE	dCH::::CV		
	JANUARY TATI	<u>ings</u>		
	analysic of all.	ni. nales		
				Increase
	This Tear 2,278,708	C.754,014	1ncrease -375,300	-3.8
logicential Lighting) Lommercial Lighting J	* 15 to 1 to		•	22.5
Residential Heating A Cooking	1,(114.	. , COS , 547	-817,715	-39.2
Commercial Heating & Cooking Bulk Supply Industrial	) Programme in the contract of	.1.,470,34.8	9,745,317	1,5 .1,
rulk Supply Industrial	12.3.35.4 2.35.44.2	1,357,547	-1.:0,889	د. 9-
imal! Power (Incl. u.c. Lift.	) 5.,81.,814,	$\gamma$ , $\partial_{x}M$ , $A$ , $C$	7.6,100	1
Public Utility:	1.00. 900	1.395.355	119,000	11.2
Shangbai Trans French Trans	1,1 <i>4</i> 1,777 357,00	1,850,750 1,452,65	-27.5 (C)	-82.3
hanghai daterwerka	1,.79,.50	1,00%,,560	194,640	17.9
Chanei lo.	1 1 1	.,386,011	1,35,59	15.1
Intercompuny - 1.0.	10,000,000 , 100, 10 100,000,000	14.706,4	5,300,646	36.0 6.0
Trivate Street Lighting	`-m';;;:	72,073	38.7 (18.2 14. م	7.8
Municipal Street lighting	94,196	182,605 462,073	32,438	7.0
Municipal Others	191,511	67,833,606	15,798,129	23.3
Total Units of by (12 months -	83,631,715			
ending Januar, 1948)	Ac. 1	677,260,203	Xdria / ldrand X	36.4
<u>Angelyal</u>	<u>a of harm industri</u>	al lighes in belief		lnerease
				over.
	<u>This bonts</u>	Last Louth	15,119,690	hant Ye
Chings: Cotton Hills	,	区 <b>,</b> CH,6。 511 <b>,</b> 6	173,100	1.29.6
Other Cotton Willia		993,474	15, 292, 980	1,2,40969
	1, 209, 613	984, 1.36	765,WV	1,2,2
Total Cotton Hill			713,080	61,.7
Flour Milis	1,177,,2,553	1,103,Cat		
Flour Mills nubber Products	1,177,,755 1,185,050	1,163,C; 1,118,066	لموارق والمالك	45.8
Flour Milis nubber Products Paper Milis	1,177,,2,553	1,103,000		1.25.1
Flour Mills nubber Products	1,174,,105 1,181,065 (a,111)	1,163,06.; 1,118,066. 39,590	23,403	1.23.1
Plaur Milis nubber Products Paper Salls Lumber Milis Dgg Produce Oil Milis	1,17,,000 1,18(,000 53,320 172,500	1,163,000 1,118,000 39,590 207,500	23,403 23,403 109,350	
Plour Mills Hubber Products Paper Mills Lumber Fills Egg Produce Oil Mills Loc S Cold Storage Factories	1,174,100 1,181,000 (2,182) 172,510 335,611	1,163,000 1,118,000 39,590 201,500 544,045	23,403	1.25.1 
Flour Mills subber Products Paper Mills Lumber Mills Ligg Produce Oil Mills Loc & Cold Storage Factories Tobacco Factories	1,174,,000 1,181,000 (0,,010 172,500 332,011 482,747	1,163,00. 116,000 39,590 	21,454,2 23,403 109,350 268,950	1.25 . 1 
Plaur Milis subber Products Paper Salls Lumber Milis Ligg Produce Oil Milis Ice & Cold Storage Pactories Tobacco Pactories Jilk Milis	1,171,1000 1,121,000 (n,n00) 172,500 332,611 282,747 80,350	1,10,5,0.; 118,000 39,590 201,500 561,065 267,326 55,000 2,747,603	61.6,54.2 23,403 109,350 268,950 235,656 53,431 1,670,395	1.25.1 57.8 24.0 20.0 50.4 58.6
Flour Mills Hubber Products Paper Mills Lumber Mills Ligg Produce Oil Mills Icc & Gold Storage Factories Tobacco Factories Lilk Mills Mincellancous Textiles	1,174,,000 1,181,000 (0,,010 172,500 332,011 482,747	1,10,5,0.; 118,000. 39,590 207,500 542,045 267,326 55,300 2,747,663 1,305,743	21.4,54.2 23,403 109,350 268,950 235,655 53,431 1,670,395 808,920	1.25,1 57,8 24,0 20,0 50,4 58,6 62,6
Flour Mills Rubber Products Paper Mills Lumber Mills Dog Produce Oil Mills Tobrace Factories Tobrace Factories Mills Mills Minarellancous Textiles Estal Working	1,174,,000 1,185,040 (4,880 172,500 332,614 882,747 80,355 2,649,040 1,316,634 394,010	1,103,00; 118,000 35,590 201,500 544,045 267,326 55,300 2,747,603 1,305,743 392,760	21.6,54.2 23,463 109,350 268,950 235,655 53,431 1,670,395 308,920 222,280	1.25.1 57.8 24.0 20.0 50.4 58.6 (2.6 77.3
Flour Mills Hubber Products Paper Mills Lumber Mills Ligg Produce Oil Mills Icc & Gold Storage Factories Tobacco Factories Lilk Mills Mincellancous Textiles	1,174,,000 1,100,000 (0,000 330,011 282,747 80,350 2,649,040 1,310,034	1,10,5,0.; 118,000. 39,590 207,500 542,045 267,326 55,300 2,747,663 1,305,743	21.4,54.2 23,403 109,350 268,950 235,655 53,431 1,670,395 808,920	1.25,1 57,8 24,0 20,0 50,4 58,6 62,6





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Mer to 6.0

#### GENERAL COMMENTS:

Rates - The Automatic Formula, described in last month's Report, was used in the computing of the January rates. As already reported, the Formula in its completed form is:

Average Rate 
$$0.37x_1 + 0.43 x_2 + 0.044(\frac{60}{100} y + \frac{40}{100} w)$$

The values for the variables,  $\mathbf{x}_1,\ \mathbf{x}_2,\ \mathbf{y}$  and  $\mathbf{w}$  which have been used for this rate computation are:

$$x_1$$
 = Coal price = Co2,150,000 per Hetric Ton  $x_2$  = Cil price = C\$2,931,707 " " " y = Cost of Living Index = 68,200 W = Letal Index = 122,750

Inserting these values in the Formula, we have:

#### Average Rate = 036,017 per KWH

A = Average Rate
P = Power Rate (and Commercial Bulk Supply)
1.10 P = Lighting, Heating & Cooking Rate
0.60 P = Public Street Lighting Rate
1.10 P = Frivate Street Lighting Rate
0.80 P = Transays & Materworks Rate
0.60 P = Chapei & French Companies! Rate (within Allotment)
0.90 P = " " " " " " (usage in excess of Allotment)

The following table shows the rates approved to go into effect on January 6th and, for reference, the previous rates are given which had been in force since November 22, 194%:

	Hov. 22, 1947	5 in. 6, 1948 C\$/KWH
lighting, Heating & Cooking Commercial Bulk Supply	4,650 4,650	6,900 6,2 <b>7</b> 5
Power = up to 50,000 KWH/Month " = excess over 50,000 KWH/Month	4,650 4,710	6,2 <b>7</b> 5 x
Public Street Lighting & Traffic Signals Private Street Lighting	2,340 4,605	3,765 6,900
Shanghai Waterworks Shanghai Tramways	2,815 1,905	5,020 5,020
Chapoi Co usage up to 3,360,000 K/H/Month		3,765 5,640
French Co usage up to 850,000 KWN/Month	2,330 4,195	3,765 5,640

x One Rate only

MEP 207-0

#### ECONOMY CAMPAIGN:

With a view to bringing to the notice of the general public the serious problem presented by the prevailing shortage of generating especity in the city, it was decided to run a press and radio campaign in an endeavour to encourage non-industrial consumers to exert economy in the use of electric energy.

#### Preus Campaign

A series of eleven notices, including a preliminary announcement, was prepared and on January 17th the announcement was published and followed on consecutive days by the ten notices until the series was completed. These appeared in 10 local newspapers, 6 in the Chinese language and 1, in English. A copy of the complete series is enclosed.

#### Radio Program

This program was initiated on January 16th by an introductory announcement being read over the air by all the selected stations. This was followed on the 17th and continued until the end of the month by suitably worded spot announcements of approximately 1-minute duration each at regular intervals between  $4:30~\rm p.m.$  and  $10:00~\rm p.m.$  The following are three examples of announcements used:

"It will soon be dark and the demand for electric power will increase as lighting is matched on. Do not switch on more lights than you actually meed, nor leave burning any lamps that are not required. Please cooperate in sawing electricity."

"This is the hour of peak demand for electrical power. Supply to certain factories in Shanghai is in danger of being disconnected, in order to green damage to the generators by overloading. You can all help by using as little electricity as possible right now. Industry in Shanghai asffers every time supply is interrupted."

"bon't use your electric cooker for boiling all the water you need for baths, hundry, etc. This can be done much changer with auxiliary stores burning scal, coke, briquettes, charcoal or oil. Those stores are relatively crear to install. Train your servants to do as much cooking as possible in this way."

In order to empure proper delivery, the announcements were recorded on master gramsophone records by emperienced artists and from those master records duplicates were made for use by the various broadcasting stations. This program was presented by nine stations, eight of which broadcast in the Chinese language and one in English.

#### RESTRICTIVE MEASURES

Numerous letters are still being received from consumers requesting revision of allotment or preferential treatment with regard to payment of restrictive charges.

Each case is analyxed and if the request for allotment increase is justifiable and in line with the various Regulations set up by the Committee, adjustment is made to permit of reasonable operation without undue hardship.



#4F. \$9 F.P WP ##1 (18-4%)

Undoubtedly the scheme has attained a certain limited degree of success, but it is felt that it has created a considerable amount of ill feeling among our consumers. Efforts have been made to give fair treatment to all those consumers who have brought their individual problems to our notice, but many others who have endeavoured to adhere strictly without complaint to the plan have suffered hardship. Taking all factors into consideration, the scheme which was given us to enforce has little in its favour and the amount of load released hardly justifies the means employed to attain this end.

#### COMMENTS: TOTAL KILGWATT-HOUR SALES:

The meter reading months were as follows:

	January	December	Difference
Schedule Rate Consumers	32.49	27.98	+ 10.1%
Bulk Supply Consumer:	31.00	30.30	<ul> <li>2.3%</li> </ul>
Municipal Consumers	32.00	29.00	+ 10.35

Total Kilowatt-Hour Salog for January were 83,631,735 NWH compared with 79,000,000 KMH in December, an increase of 4,000,000 KMH or 5.5%, corresponding closely to the increase of the weighted reading month. January 1947 Jalos were only 67,800,000 KMH, but this total was low because the Chinese New Year holidays occurred during the reading period. A decrease may be expected next month as the holidays this year were in February.

liepidential a Commercial Lighting Sales amounted to 9,378,708 Keh compared with 7,636,000 KeH previous month. This is an increase of 1,740,000 KeH or 24%-8% more than the increase of the reading month.

Previously recorded usage and reading months were as follows:

December 1946 7,500,000 Edit in 25.8 days January 1947 9,750,000 " " 32.13 "

Average daily sales therefore compare as follows:

| Daily Sales - Kall | 1946/7 | 1947/6 | December - 269,000 | 274,000 | January | 1,222 | 281,000

Residential & Commercial Heating Sales increased from 1,000,000 kWH in December to 1,268,000 kWH in the current month. With due regard to the longer reading month, the increase is not much less than normally seasonal although no doubt a certain saving resulted from the Restrictive Measures.

Industrial Rulk Supply took 31,215,00 KMH compared with 30,600,000 KMH last month, an increase of 515,000 KMH or 21. host of the increase was due to higher Cotton Kill usage.

Commercial Bulk Supply consumption increased from 1,186,000 Eali the previous month to 1,230,000 kWH in the current month, in line with the increased reading month.

Small Power - Sales registered 5,810,000 KeH compared with only 4,980,000 KeH last month. This is an increase of 930,000 KeH or 196 - 35 more than accounted for by the longer reading month.

- i -

745 20 5.0

Shanghai Trams took 1,185,000 WWH, i.e., no change from the preceding month, while sales to

French Trans dropped slightly to \$57,000 B.M.

Shan,thai Waterworks sales totalled 1,200,000 KWH, 2% less than the December total of 1,389,000 KWH.

Chapei Co. - Dales declined slightly to 10,600,000 EMH, while

Intercompany dales increased by 67 to 30,00  $\pm 3.7$  in line with the longer reading month in the destern District.

Public & Frivate Street Lighting Sales showed no charge, but

 $\underline{\underline{\text{Municipal Ctherg}}} \text{ took $\mathcal{F}'$ more than $'$ of month due to unanomally increased lighting and heating usage.}$ 

AUGEN 11 CF 1 ... CF 1 HD' ... TRIAL 1 d.E.;

Cotton 1911s - Alex increased (.) to AL,700,000 EdH.

The demant for cotton parm and piecewoods continues to be good and mills readily absorb all available energy.

According to a statement by "The Cotton Textile Adjustment committee", the requirements of sotton yarn in Greater Changhai is 108,000 bales (of 420 lbs.) corresponding to about 24,000 tens of raw cotton per month. The cotton will be distributed to the spinning mills in exchange for yarn which in turn will be rationed to the weaving mills in exchange for piecegoods. Operators fear that the collection of the finished product will be more afficiently mandled than the distribution of the raw material and in therefore reluctant to use up their stocks until replacements are received. Devend mills have voiced their intention to reduce operations in outril and in a name night shifts. Probably these threats are mainly intended to back agestications regarding operating costs and a compremise will be struck which will enable the present level to be maintained.

Flour Lills took 1,089,000 EAR as gured with FRA,DE EAR preceding month, an increase of a month of further poderate increase may be expected as grain shipment. From the United States of received as part of the Relief Aid to Chica.

Rubber Inducts - Class read and grantically unchanged at 1,174,00 Kdl. A considerable percentage of the products of this industry was previously exported and raw rubber percentage from the proceeds. Lately, the rubber quotas have been reduced and with the wide margin between official and open market exchange rates, export has become less profitable, so operators are depending to an incregsing extent on the domestic demand. Shipments to outports have been disrupted due to the civil war and the exceptionally dry weather this winter has also affected salue, and retailers are generally overstocked. Most mills are now producing summer footwear for stock. The tyre husiness, which is less influenced by commonal variations, is fair. A moderate decline of sales from the industry in general is feared unless cold and rainy weather should increase demand.

Sales to Paper Mills Increased by 6% to 1,185,000 kWH. Since imports were restricted a year ago, Paper Mill usage has shown a steady increase as shown by the table below:

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#### S.P.C. & M.D.P.C. COMBINED

#### PAPER MILL USAGE FOR 12 MONTHS ENDING

January 1	1947	11,000,000	13.7
February	ii i	11,390,00	11
March	н	11,760,000	71
April	rr	12,170,000	:1
May	ii .	12,700,00	*1
June	н	13,400,000	11
July	n	14,000,000	**
August	0	17, 370,000	11
Sent.	п	14,930,00	11
Oct.	:#	15.790.00	11
liov.	n .	16,7:0.00)	**
Dec.		17,660,000	17

at present very little paper is imported except newsprint which is not manufactured locally. With stock of imported printing and writing paper deimilling, prospects for this group are good and increased usage may be expected.

bumber R311s took 31.97 more than last menth and reached a total usage of 52,220 EMR. Sales to this group have also increased steadily during the last twelve months and immediate prospects are good.

Egg: Produce continued idle.

last month. Cil Milis - only to this group were 17.,500 has or 10.5, less than

337,611 KWH. 100 % Jold Storage Factories - Usage was secsonally down by 38.7. to

Tobacco Factories - The consumption of this annuatry showed a materate increase. The total and 282,7% and inspared with 207,7% find the previous months both months were post-mar highs and indications are that femand will continue good.

Hage stocks of imported eigenettes are still available and are on sale everywhere, but restricted imports have forced the prices up so that local producers are able to undersell them and still plenate at considerable profit.

<u>Silk Killa</u> - Sales to this group increased by 46.11 to 80,355 kill but this was almost entirely due to the transfer to Bulk Jupply from Small Power of 3 now consumers: Heng Foong Silk Weaving Factory, kei Wen Silk Manufacturing So. and the Poo Yih Silk Weaving Factory with a total usage of 22,000 kMM. The old consumers in the group barely maintained operations and activities are not expected to increase.

Local hosiery manufacturers have complained of the competition with imported nylon goods and requested the authorities that the sale of those be prohibited. The results of this action are not yet known.

Missellaneous Textiles - Sales totalled 2,650,000 KWH, a 3.65 decrease from December. Dysing and Weaving Mills generally maintained activities, while Shirt and Hosiery Manufactures showed a reduction.

Metal Working Sales were 1,315,000 KWH, showing no change from last

month.

- 8 -

MP 90% (11-47)

Most mills barely maintained activities and although the Chinese Aluminium Rolling Mills reduced operations, this was counteracted by the inclusion in returns of two mills formerly on Small Power: The China Rolling Steel Works and the Kuo Ming Steel & Iron Works with a combined usage of h/2,000 KWH.

Woolen Mills took 394,010 KdH, the same as last month. A seasonal decline may be expected during the next few months.

<u>Miscellaneous Other Sales</u> increased by 0.4% to 766,000 kml. The tendency of Chemical Plants, Breweries and Acrated Water Companies was weak; Coal Briquettes, on the other hand, increased their activities, partly due to the cold season but also due to the high price of electric energy which encourages cooking and heating by other fuels.

#### POWER SECTION

In last month's Report reference was rade to a resolution passed by the Power Supply Regulating Committee authorizing the acceptance of applications for power service for daytime operation, provided that spare distribution was available and the load applied for did not exceed  $25~\mathrm{HeV}_2$ .

Details of lond applied for worm first submitted to Distribution Department Engineering to investigate the possibility of connection without overloading the low voltage distribution networks in the areas concerned.

During the month 10% applications, aggregating 1,003 H.P., were approved for connection in S.P.C. and W.D.P.C. franchise areas. However, owing to a reduction in the coal allotment for diverside Power Station, and consequently the possibility of increased load reduction being necessary, it was deemed advisable to delay accepting these applications until coal supplies returned to normal. Applications for power service for night operation only are still being accepted.

In the course of the month, the Distribution Department Engineering continued to investigate the possibility of extending the operating hours of "night operation only" consumers. This was referred to in our Report for December. Consequently, by the end of January 213 consumers - total connected load 2,655 H.P. - had been advised in writing regarding the extension of operation to the daytime poriod.

The following applications for power service were accepted during the month:

New Load: 14 Applications totalling 545 H.P.

The above load includes 3 H.P. for a water pump and temporary loads of 20 and 38 H.P. for building construction. The remainder of the applications, for night operation only, include new or additional loads of 280, 122 and 50 H.P. for rubber factories and loads of from 2 - 20 H.P. covering the following industries: feed, tobacco, metals, printing and electrical repairs.

In order to investigate the practicability of paralleling the C.T.I.I. Mills' generators with S.P.C. system, the units at C.T.I.I. Nos. 6, 17 and 19 Mills were in turn run in parallel with our system for a number of hours. The experiment proved successful, but so far no agreement has been received regarding the conditions governing the operation of these generators to increase the power output in the Sinanghai area during the ortical evening peak period. As explained in our December Report, the power imported to S.P.C. system would permit an equivalent increase in export to the Hantae Power Co. to improve supply facilities in that area.



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With the progressive lengthening of the daylight period, it was possible towards the end of the month to increase the operating hours of the cotton mills by reverting to the normal working schedule. For comparison the temporary and normal schedules are shown below:

	DAILY STOPPING	G PERTOD
<u>Hillo</u>	Mormal Scheduln	Temporary Schedule
2 Groups	4:30 p.m 7:30 p.m.	4:00 p.m 7:30 p.m.
2 "	5:30 p.m 8:30 p.m.	5:00 р.м. ~ 9:00 р.м.
2 "	7:00 pama - 10:00 pama	7:00 p.m 10:00 p.m.

The estimated loss of sales potentiality during January, due to the operation of the temporary working schedule, was approximately 250,000 KMH.

load reduction affecting Chapei, Nantao and Pootung Power Companies is now applied as follows:

When enforced reduction on S.P.C. system is	Lond reduction applied to Chapei, Nantao & Pootung Co's is
10,000 kW or less	Nil

Previously, 1/6 of the total load reduction required was applied to these Utility Companies by interrupting supply, on a rotating schedule, to three of the even feeders supplying those Companies. The application of load reduction was necessarily restricted to three feeders, as the remainder supply essential services. Consequently, interruption to supply only affected certain areas, but with the new scheme in operation the Chapei, Nantao and Pootung Companies can apply enforced load reduction on a more equitable basis.

The estimated loss of sales potentiality during the month due to load roduction was as follows:

Cotton Mills	3,970,000	KviH
Chapei & French Power Co's	231,000	
Miscellaneous Industrice	630,000	**
	1,831,000	ЮHН

To the above total should be added the estimated loss of 250,00% MMH due to the temporary curtailment of operating time for cotton mills, making the total for the month 5,081,000 MMH, which compares favourably with Last month's total of 6,055,000 MMH. Voluntary load reduction, as applied to cotton mills, is still calculated as lost sales.

When estimating the total monthly loss of sales potentiality, it has been customary to deduct 1,830,000 MMI being the estimated gain due to the introduction of the Sunday working schedule for cotten mills in October 1946. As the present operating schedule is definitely established and likely to remain in force for some considerable time, it has been decided to discontinue making any allowance for the gain in sales previously referred to. In future, therefore, the estimated loss will be that due entirely to load reduction applier during the month.

lead conditions at Riverside improved considerably during the month when compared with December. This is illustrated in the following load reduction statistics for the two months:

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#### Estimated loss due to enforced load reduction applied to Cotton Mills

January

3,065,000 KWH 1,529,000 13/11

At the beginning of the month the overhaul of one boiler in "B" Station appreciably reduced the available steam generating capacity. When the coal allotment to Riverside was reduced, it was decided to economize by shutting down boilers normally banked, but brought on the line to carry over the sharp evening peak demands. The situation was further aggravated for about three days due to the delivery of a quantity of low grade fuel oil.

During January there were a number of cold, overcast days, with a resultant sharp increase in demand due mainly to heating load. Throughout the month the average potential demand was approximately 155,000 kW in the foreneon and 160,000 kW in the afterneon, while the maximum sustained demand that Riverside could negotiate varied from approximately 142,000 kW to 152,000 kW, depending on availability of generating plant. The nighest instantaneous peak demand recorded was 160,100 kW. was 160,100 kiv.

No new connections to bulk supply consumers were made during the month, but the following load prospects were recorded:

Name: East China Steel Rolling Mills, Ltd.

Address: Hochic Load: 250 H.P. Hochien Road.

Estimated Maximum Demand: 130 KW. Estimated Annual Rovenuc: CM\$1,280,000,000.-

This new steel rolling mill is expected to be ready to start operating about April of this year.

Until additional generating plant is available at Riverside, consumer will be restricted to night operation only and supply will be given at low voltage.

Name: Wu-Kiang Rolling Mill Address: 1090 Tongshan Road. Load: 225 H.P. Estimated Maximum Demand: 120 KW

Estimated Annual Revenue: CN\$1,170,000,000.-

Supply to this new steel rolling mill will be given temporarily at low voltage from the adjacent network for night operation only.

There is a possibility that the plant will be extended at a later date, creating an estimated increase in demand of 100 KW, and should this extension materialize the supply would be given at 6.6 KV, when consumer would be required to purchase suitable 6.6 KV equipment.

Name: National Insecticides & Sprayer Experimental Plant. Address: 802 Yulin Road.

Load: 600 N.P. Estimated Maximum Domand: 300 KH Estimated Annual Revenue: CN\$2,560,000,000.-

This new experimental plant is under the control of the Ministry of Agriculture & Forestry and the installation of machinery obtained from UNRMA in already in hand.

- 11 <del>-</del>

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Supply will be given at 6.6 mV and consumer has been advised regarding the purchase of suitable equipment.

The consumer has applied to the Bureau of fublic Utilities for permission to operate during daytime, but so far no decision has been made.

.111 revenues mentioned in this deport are based on present power rates of CN\$6,275.- per USA.

#### Fower Installation Inspections:

Inspections made during January were as follows:

ho. of inspections Unsutherized during January Additions

#### HIRGO FERRY INSTABLATION & FRIENDRAGE SECTION

#### Workshop output:

#### Hired Petors:

dennections or disconnections - 901 Jeven treaknows occurred. In each case the motor had to be chapted that to earne to life units, subsequently dended other faults to revelop.

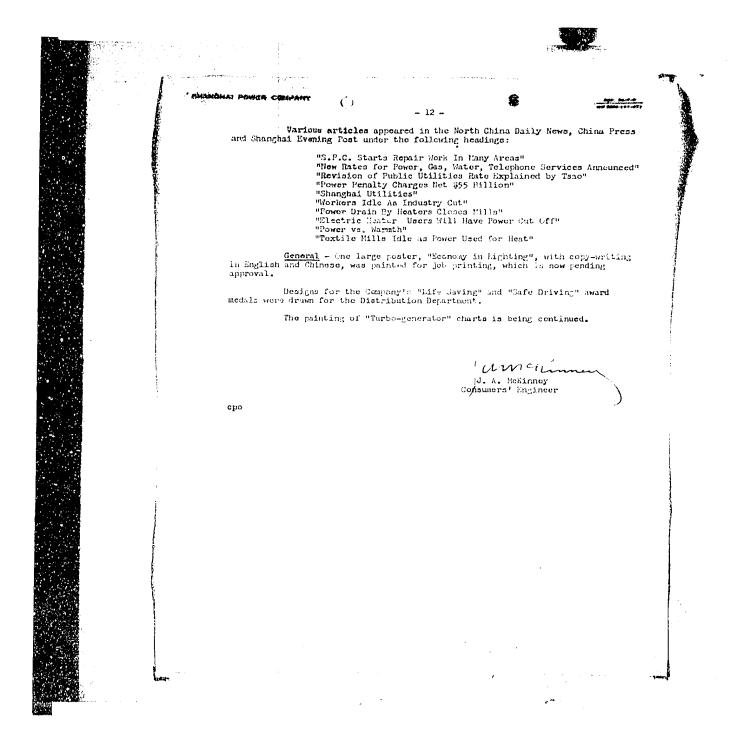
especially in the Sentral District where, waing to parting restrictions, radiators in most cases have to be carried by hand to a central point and later cicked us by the truck. Loraging is in full swing with the limited staff available and from new on it is noted to average 500 - 900 per week.

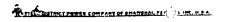
## ADVERTIBIES SECTION

 $\frac{\text{Newspapers}}{\text{And Ohinese newspapers}} \sim \text{Two notices were inserted in all the anglish, Russian}$  and Ohinese newspapers this month:

"Revision of Rates" on January 6, 1948 "Debenture Notice" on January 30 and 31, 1948.

A certain amount of work was done by this section in connection with the Fress Economy Campaign which is mentioned early in this Report under "General Comments".





ij. March 3, 1948

MT. 80 C-57

# WESTERN DISTRICT POWER COMPANY OF SHANGHAI, FEDERAL INC. U.S.A.

#### JANUARY STATISTICS

# Analysis of K.M.H. Sales

				Increase
	This Year	Last Year	lncrease	4.9
Residential Lighting)	1,711,657	1,631,364	80,293	4.9
Commercial Lighting )		(00.01)	202 000	161
Residential Heating & Cooking)	349,126	639,014	-289,888	-45.4
Commercial Heating & Cooking )				/- /
Bulk Supply Industrial	12,290,850	7,431,044	4,859,806	65.4
Bulk Supply Commercial	60,576	17,033	43,543	255.6
Small Power	3,149,243	2,779,199	370 <b>,</b> 044	13.3
Public Utility:				
Chapci Co.	1,379,755	1,148,400	23 <b>1,</b> 355	20.1
Private Street Lighting	12,512	11,065	1,447	13.1
Municipal Street Lighting	24,385	21,727	2,658	12.2
Municipal Others	231,503	223,326	8,177	3.7
Total	19,209,607	13,902,172	5,307,435	38.2
Total Units Sold (12 months				
onding January 1948)	201,889,580	137, 154, 923	64,735,557	47.2
Total Units Purchased (12 months			to one uct	
ending January 1958)	214, 381, 956	14,5,092,200	69,289,756	47.13
Distribution Losses (12 months		v v.	0.76	12.7
average)	6.2%	<u>5.5%</u>	U • / 6	
Maximum Domand for Purchasued	34,222	30,780		
Power - KW	24,222	70 100		

# Analysis of large Industrial Sales in K.W. ii.

				Z OVOL
	This Month	Last Month	Lust Your	Last Your
Chinese Cotton Mills	7,449,610	6,696,160	4,869,370	53.0
Other Cotton Mills	3,600	3,300		
Total Cutton Mills	7,453,210	6,699,480	4,869,370	53.1
Flour Mills	309,150	284,250	230,700	34.0
Rubber Producte	44,9,4,97	405,504	14,3,075	211.2
Paper Millo	752,764	767,987	95,976	684.3
Tobacco Factories	-	-	10.000	7(-5
Ice & Cold Storage Factories	16,700	4,300	13,200	26.5
Silk Mills	252,580	21,2,420	231, 160	7.9
Miscellancous Taxtiles	2,107,175	2,093,518	1,362,047	54•7 66•6
Hotal Working	183,818	164,790	306,520	23.8
Woolen Mills	379,580	380,025	65,640	1.88.6
Missellaneous Other	386,376	331,873	7.431.044	65.4
Total	12,290.850	11,374,177	trino 6 T Chres	37**

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	Sind Committee of the Committee of State of Committee of the Committee of	- 2 -	ũ		printe direction of the contraction of the contract
<b>X</b>		CONTECTIONS			T.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	No. of Custemers  " Refrigorators " Gaokora (Hired) x " Radiators (") x " Water Heaters (") x " Hise. Appliances (") x H.P. of Ectors (") x	This Month 22,285 2,321 783 97 27 29 4,986	Last Month 22,165 2,318 783 170 29 29 4,939	Laut Year 20,734 2,238 781 321 26 29 4,345	Increase during Henth 120 3 -73 -2 -2 -47
ļ	x Hired from 3.P.C. and incl	uded in J.P.C.	Statement.		
	<u>g</u>	ONEECTED LOAD			1
	K.W. Lighting Hoating: Comprising Cookers Radiators Hater Heaters Fiscellaneous Hotors Industrial Heating Total	15,674 (6,912) 5,725 771 62 354 73,489 1,094 97,169	15,565 (7,114) 5,715 984 65 350 69,943 1,099 93,721	14,774 (7,390) 5,615 1,422 58 295 64,846 1,036 20,046	109 (-202) 10 -213 -3 4 3,546 -5 3,448
	HONTING	Y MOV. FERT IN	CUSTORING		
				otal All Managa	:
	Total Gustom	ers Reconnecte	ed	29	
	Total Cuptom	ers Disconnect	to.	<u>55</u>	
			loss	26	į
		atomera Connoc		146	ī
	Total Increa	ac During Mont	-n	120	



#### MATTE CORRECT CHAPTER CONTANT OF SHORBORN LEE / LEFE, M.S.C.



#### COMPENTS: TUTAL KILOMATT-HOUR SALES

The meter reading months were as follows:

	January	December	Difference
Schedule Rate Consumers	32.40	28.83	+ 12.4% + 6.2%
Bulk Supply Consumers Municipal Consumers	31.00 32.00	29 <b>.</b> 20 29 <b>.</b> 00	+ 10.3%

Total Hilomatt-Hour Sales for January were 19,209,607 EMH compared with 17,736,000 EMH for December, an increase of 1,500,000 EMH or 8.36, approximately the same as the percentage increase of the reading month. Lighting sales show the highest learning.

Residential  $\times$  Commercial Lighting Salos showed a normal seasonal gain of 12.5% to reach a total of 1,711,657 MWH.

Residential & Commercial Heating halos were 349,000 NWH compared with 340,000 NWH last menth. A heavier seasonal increase is normal.

While the Restrictive Measures had little apparent effect on Lighting Sales, they have probably enabled a considerable amount of energy, which would otherwise have been used for heating, to be diverted to industrial services.

Industrial Bulk Supply took 12,290,000 BHH - about 900,000 BHH or &S more than the previous month. East of the increase was due to higher Cotton Hill usage.

Commercial Bulk Supply showed a normal seasonal increase of 12.6%.

Small Power Sales registered 3,149,000 Eddl, an increase of 9.68% over last month's total.

Chapei Co. took 3.75 more than in December. The usage was 1,360,000 Kill.

Private Street Lighting sales increased by 76 to 12,512 KMI, while

Municipal Street Lighting showed no change.

Sales to <u>Municipal Others</u> increased seasonally by 10.86% to 231,503 KWH due to higher lighting consumption.

#### AMALYSIS OF LARGE INDUSTRIAL SALES:

Cotton Fills - Sales to this group increased by 750,000 km or 11.3% to 7,453,000 km. With one exception, all mills increased activities.

Plour Mills - The Riva Foong Flour Mill used less, the Hoong Foong Flour Mill used more, than last month. The total was 309,000 KMH as compared with 284,000 KMH in December.

Rubber Products - This industry again registered increased usage and reached My,000 EMI, a new post-war high.

Paper Mills usage, on the other hand, declined slightly by 2.0% to 752,000 kMl. Host of the Mills increased activities, but reduced operations by the Chung Woo Faper Products Factory brought the total down.



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Ice & Cold Storage Factories used 16,700 kWH compared with 4,300 kWH last month.

Silk Mill consumption was higher than in December on account of the longer reading month. The total was 252,000 KWH.

Miscellaneous Textiles showed no change as most mills barely maintained activities. The total usage was 2,107,000 KWH.

Metal Working Salas were 11.5% up from last month and reached 184,000 KmH. Fow factories showed any increase, however, but the usage of three new consumers, formerly recorded as "Small Power" consumers (with a total consumption of 19,400 KmH), were included in the records of Bulk Supply.

Woolen Mills showed a slight reasonal decline with a total of 379,000 KWH compared with 380,000 KWH in December in spite of the longer reading month.

Miscellaneous Other Sales increased by 16.4% to 386,000 KWH compared with 332,000 KWH in December. Two new consumers, previously on "Small Power" records, were added to the list: Sing Hua Hat Factory - Usage 16,990 KWH; China Synthetic Chemical Works - Usage 19,530 KWH.

#### POWER SECTION

Applications accepted during the month for connection of power supply were as follows:

New Load: 9 Applications totalling 225 H.P.

The above load includes 120 H.P. for a new steel rolling mill and the remainder for loads of from 3 - 40 H.P. covers the following industries: weaving, metals and fountain pen manufacture.

All applications accepted are for night operation only.

The following load prospects were recorded during the month:

#### NEW LOAD

Name: Now Jung Ketal Works
Addrens: 175 Yenping Road
Load: 360 HaP.
Entinvited Maximum Demand: 200 NW
Entinvited Maximum Demand: CN\$1,860,000,000.-

This is a new rolling mill which is expected to be ready to start operating about April of this year. The installation will consist of 150 MeP. for het rolling, 120 MeP. for cold rolling and the remainder of the load for auxiliary machinery.

Supply will be given at 6.6 KV and consumer will provide a suitable transformer and 0.0.9.

Name: Shanghai Iron Works
Addross: 950 Robison Road
Lond: 450 HePEstimated Hartmum Benand: 240 NM
Estimated Annual Revonue: CN\$2,149,000,000.--

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The main load will be 400 H.P. for a steel rolling mill with an additional 50 H.P. for auxiliary machinery.

Supply to be given at 6.6 KV will be required about April of this year. Consumer has been advised regarding the purchase of suitable 6.6 kV equipment.

#### ADDITIONAL LOAD:

Name: Pac Shan Paper Mill
Address: 200 Tunsin Road
Additional Load: 300 H.P.
Estimated Additional Maximum Demund: 180 KW
Estimated Additional Annual Rovenue: 180 KW
CN\$2,360,000,000...

The consumer plans to install additional machinery consisting of one paper machine and three beaters, and this will bring the estimated total load demand up to  $400~{\rm KM}_{\odot}$ 

Supply will be given temperarily at 5.6 KV until the development of our 23 KV system in this area is completed when the supply voltage will be changed. Consequently, the consumer has been advised to purchase a 23 KV 6.6.5. and transformer with deal primary winding.

Connection of supply for the aforementioned loads will be given for night operation only until additional generating plant is installed at Riverside.

Above revenues are based on the present power rates of Chilo, 275 .- per Kwii.

#### Power Installation Inspections:

The following inspections were made during this month:

No. of Inspections during January Additions

52 15

J. A. McKinney

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SHANGHAI POWER COMPANY

# SHANGHAI POWER COMPANY RIVERSIDE STEAM ELECTRIC STATION MONTHLY GENERATION REPOSIT JANUARY 1948

### OUTPUT & PERFORMANCE DATA -

	-	. A	В	С		D		į E
		Total Station Not Sutput Kwh	Short Time Peak Demand Kw	St B Gross Go	noration % of Total	St C Gross Go Kwh	neration % of Total	Overall Heat Consumption Btu/not Kwh
Jan	1948	88,639,613	160,119	39,276,339	41.14	24,069,000	25.22	18,872
Doc	1947	89,282,846	164,368	41,002,116	42.63	20,574,000	21.39	19,090
Jan	1947	71,454,917	139,961	28,977,282	38.09	-	-	20,516
Jan	1946	39,169,890	90,185	24,980,865	58.94	-	-	20,588
% in o▼	orease or	:	r T	! ! !		ı		
Doc	1947	-	-	_		16.99	!	-
Jan	1947	24.04	14.40	35.54		· -		-
Jan	1946	126.30	77.55	57.23		-	1	-
	CFG & SO						•	
Doc	1947	0.72	2.59	4.21		-		1.14
Jan	1947	-	-	-		-		8.01
Jan	1946	-	_	-		-		8.33

	Hourly Station Not Output Kwh	St B Hourly Generation Kwh
Jan 1948 (744 hr)	119,139	52,791
Jan 1946 (752 hr)	52,088	33,219
% increase over Jan 1946	128.73	58.92

22.12

Remarks:

The better economy compared with December 1947 due to (1) higher percentage of St C generation; (2) better beiler efficiencies; (3) lower back pressure resulting from lower river water temperature.

The lower heat rate compared with January 1947 and January 1946 due to (1) 1/c of St C; (2) 1/c of TG 16; (3) better Station load factor; (4) better equipment conditions.

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#### STEAM-GENERATORS -

					Operating Hr since	Total Ho	month
SG No		i/c	Hours o/c		last o/c for Maint	Not Available	Oper- ated
			0		1415	0	744
31 30	10	11	11	Copes and whistle valve repaired (IDA) - PAF motor retor rebalanced.	1190	11	732
29	3	19	<b>375</b>	Annual overhaul after 15059 hr operation (PAS) - Feed drum examined, scraped, wire brushed, painted. Beiler & Ec press tested, one side wall tube renewed. Main tubes, arch tubes, wall & screen tubes turbo-cleaned. Sh inlet box opened, scale removed from tube bends. Various valves overhauled, tested. Baffle scaling repaired, ashpit hopper overhauled. Furnace brickwork patched, 1000 bricks renewed. PAF & IDF examined. Ec relief valve tested, water alarm checked. All aux motors and startors overhauled. Temp recorder wire & conduit renewed. Main stop valve position indicator repaired.	499	375	351
-00			0		1096	0	744
28 27	-	_	0	Aux motors & starters routine cleaned.	1758	0	726
26	10/	24,/47	744	General overhaul after 8413 hr operation progressing (RS).	0	744	0
25	3 31	i.	11 6	RH soot blower master valve changed (IDA) - 2 SB drains overhauled. Front wall repair progressing (IDA)	1127 649	17	704
21.	_	25	28	Loaky Ec repair (IDA)-2 Ec caps changed. 2 Sh caps rejointed. 2 stop valve bypass over- hauled. 1 chemical injection valve changed. Grate washed, 7 ash pusher plates changed. Stoker gear cleaned, 3 stroke adjuster bolts & 6 stroke adjusters changed. SD motor changed. Ph washed. SB system cleaned, lubri- cated. Ec press tested. Grate & ashpit wall repair (IDA) - RH rear ash- pit wall rebuilt, front wall patched. Ph wash- ed. Grate inspected; 2 dump bar racks & brack- ots, 11 ash pusher plates changed. Stoker ge- cleaned, inspected. 1 connecting rod, 4 stroke adjuster bolts, 7 stroke adjusters, 2 cod pes	ar o	59	270
_			21	ors cleaned. One ashpit door changed.	201	,	•
2	-		14	RH stop valve bypass overhauled. Routine cleaning progressing (DES).	1713 104	235	504
	22	2	221	Ronring Cramiting brogramme / >>			



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			<del></del>		Operating Hr since	Total Ho	writh
SG No	Date o/c		ilours o/c	Type of Inspection & Work Done	last o/c for Maint	Not Available	Oper- ated
22	21, 26	25 28	11 47	Ph washed (IMS) Leaky Ec repair (IDU) - Unit soot cleaned. 4 holed & croded Ec tubes renewed, header soats welded up. 14 Ec caps changed. Copes valve theracostat changed. Stoker gear cleaned, inspected. 2 stroke adjusters & bolts renewed. Stoker driving shaft bearings cleaned, lubricated & adjusted. Ec press tested. Aux motors & starters cleaned, examined.	275	58	269
21	1 10 22	1 11 22	6 16 2	Ph elements washed, examined (IDA). Sh drain valve renewal (IDA) - 1 Sh drain & 1 SB master valve renewed. Step valve bypass rejointed. Ph washed (IDA) - Aux motors & starters cleaned.	215 270	: 21 <b>,</b>	707
20	1	1.	7	Repairs to Ec à stoker (IDA) - 1 dist tube re- expanded, 4 Ec cape renewed. 5 Sh drains over- hauled. 4 stroke adjusters renewed. Ec press tested. Aux motors à starters closned, examine One set ash doors à levers changed (IDA) - stoker gear box glands repacked.	ed. 332	8	285
19	1 21 27	1 21 27	6 2 5	Ph elements washed, examined (IDA). Ph elements washed (IDA). Ph elements washed (IDA) - FD communicating damper between SS 17 & 19 freed.	246 475 :	13	736
18	3	14	12	One upper coal chute & l copes valve changed (IDA) - LH blowdown NR valve cover rejointed, pipe patched. Ashpit water isolating valve changed. One broken stoker crankshaft removed. Aux motors & starters routing cleaned.	86	12	277
17	12/	/23/47 2	31	Repairing of stown legs and leaky tube caps completed (IDU) - 14 main tube caps rejointed. One return tube re-expanded. Sh drain cockn overhauled. 12 Sh caps renewed. Defective rivets on steam leg flanges renewed. Pipos press tested. Grate cleaned, axamined. Stoker goar box overhauled. Furnace chamber brickers	-k		
	17	18	18	parts replaced. Unit most cleaned, in the vest RH Sh drain valve overhauled (IDA) - RH SB man valve changed. All FD dampers cleaned, eased lubricated. Coal chutes patched. Ashpit water service cleaned, 8 sprayers, 1 set ash doors	& r & 195		
	20	20	1,	Stoker goar repair (IDA) - No. 1, goar box over 1 shaft & 2 bushes renewed. SD motor changed	haul, . 2	53	197
				Aux fan engine strainers cleaned, oil changed	(IMS) 926	1.	702
16			4 456	Partial overhaul after 3362 hr operation progr (MS)	essing 313	456	27

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					Operating Hr since	Total Ho	month
SG L	O/C		o/c	Type of Inspection & Work Done	Last o/c for Maint	Not Available	Oper- ated
	3	4	4	Auxiliary fan engine strainers cleaned, oil changed (IMS). Routine cleaning progressing (IMS).	117 432	227	484
-3 :	22 10/19	/47 7	223	General overhaul after 3249 in operation completed (IMS) - Drum operation completed (IMS) - Drum operation, casalined and painted. No active pitting or corroaton found. Stude for hafety valves hammer tested. Drum stude for check valve and III water gauge renewed. All boiler tubes turbo-cleaned, examined, in fair condition. All Ke tubes turbo-cleaned, examined, 63 pitted or corroded tubes renewed. All front caps removed, headers cleaned internally. 10 corroded nipples on mad box renewed. Sh tubes and headers examined, no scale deposit, one holed tube cut, plugged. Furnace wall repaired, all baffles tightened. All mountings overhauled and tested. Grates overhauled. All riddling chutes renewed. FD dampers eased. Safety and relief valves tested, water alarm checked.  IDF motor switch overhauled (IMS) - FDF motor switch changed.	466 471	178	459
12	26	26		Frozen SB master valves and Copes thermoctat repaired (DA).	372	4	194
11	12/20	, 9 1 2	a 5	Partial overhaul after 3661 hr operation completed (IMS) - Drum opened, examined, no active pitting or corresion found, paint applied in June 1947 still good. Two bottom rows of main tubes and down comers turbo-cleaned, cramined, condition fairly good. Headers examined for scale deposit. Mad box and all nipples cleaned. Sh tubes and headers examined, no scale deposit. One corroded main tube and headers channed, baffles tightened. Hountings overhauled, tested. Center and IM grates overhauled. Unit pressure tested. Safety valves, Ex relief valves and water alarm checked.  Motors and switches require cleaned (IMS).	ì	220	
	2		8 14 1 13	One holed main tube renewed (IDM).  3 leaky Ec cape rejointed (IDA).	153		
10	2 2 9 1	6 2 8 2	1 13 26 4 29 31 1 14	Frozen SB meater valves and topes therabetate repaired (DA).  One holed main tube renewed (DU).  Lever Sh case rejointed (DA).	49 13 1,239	48	159
			<u>n</u> 5		: . 76	19	30

BHANGHAI PUWER COMPANY Notes:- 1. Unscheduled Outages -(a) Units taken out immediately (IDU) 9G No: 22 <u>11</u> 10 Total Times o/c Hours o/c (b) Repairs done on a deferred date (IDA) 9G No: 30 25 24 23 21 20 19 18 17 12 10 9 Total Times o/c 1 2 2 1 Hours o/c 11 17 59 14 3 2 3 8 13 2. Tube Renewals -9G No: <u>29</u> <u>22</u> 11 10 Total 13 2 1 Main Tubes ī Wall Tubes Sh Tubon BOILER HOUSE AUXILIARIES -1 - Feed Water Pumps (FWP) -- Discharge end shaft alcove tightened. Oil coolers cleaned.
 Valve FP 20/D3 replaced after overhaul.
 Discharge end bearing adjusted. FWP 12 & 15 - Governor cleaned, tested. 2 - Gas (Flue) Washer Pumps (GWP) -GMP 3 - General overhaul after 5,828 hr operation progressing. FMP 4 - Wearing rings, ball bearing and ball bearing housings 3 - Auxiliary Fans in BH 2 -IDF 10-12 - Motor alipring short circuit gear, contacts renewed.
IDF 13-15 - Starter overhauled.
IDF 13-15 - Starter changed. RAW COAL HANDLING FLANT -Coal grab changed, 2-ten grab installed. Grab shackle plate and 3 pins, operating motor brake pulley, brake lining and 2 operating wire ropes renewed. Faulty traverse motor limit switch cable renewed. Scale tested, balanced. Scale tested. Motor and starter routine cleaned. Damaged coal cluste and platform repaired. Heisting and slowing goar overhauled. 2 steel wire repenfor heisting chute renewed. Hain motor contactor pivot pin replaced.



BHANSHAI POWER COMPANY

# RAW COAL HANDLING PLANT - (continued)

Worn coal feed table gears dressed up. Operating brake

band renewed. Scale tested.

BT 2 - Travelling gears repaired. Vertical travelling chaft welded. Hotor and starter routine cleaned.

BC 1,3,11,12,13,14,15,19,20,21,22 - Motors and switches routine cleaned.

cleaned.

Motor changed for overhaul.

Renewed 65 ft of 1" piping and 3 valves for water service.

Motor changed, motor pinion renewed.

Renewed 46 ft belt, 8 sets fastenings and 2 wood boards BC 2 BC 11

BC 19 BC 26

for pulleys.
Broken motor cable and conduit renewed.
Renewed 20 ft belt, 5 nets fastenings. BC 28

#### FUEL OIL HANDLING PLANT -

FOP 11 - One oil end pisten rod changed. FOP 10 - One discharge valve changed. FOH in BH 2,3,4 & 5 - Tubes cleaned.

# PULVERIZED FUEL HANDLING PLANT -

Usual inspection and routine cleaning made.

#### Ash Handling Plant -

1 - Electric Locomotives (LE) -

LE 2 - General overhaul completed. LE 3 - Faulty trolley collector roller changed. LE 4 - Routine cleaned.

2 - Trucks & Tracks - Maintenance work progressing.

### TURBINE-GENERATORS -

TG No	Da O/S	te 1/c	Hours o/c	Type of Inspection & Work Done	Operating Hr since Last o/c for Maint	Not Available	ponth Oper-
i					AGE TABLES		
18	17	18	63	and all conlers cleaned.	1,069		
i	20	20	44	Worn excitor roller bearing renewed (IDU) - Greating nipple changed.	52	117	731
16	3	4	13	Routine cleaning (1MS) - 23 kw and neutral OCD overhauled. Governor control motor limit switch adjusted. Main oil coolers cleaned.	1.,148	13	722
		1	•	· ·			

BHANGHAI POWER COMPANY

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					Operating	Total Ho	
TG No	Da o/c		Hours o/c	Type of Inspection & Work Done	Hr mince Last o/c for Maint	Not Available	Oper- ated
15	12/31/	11 11	2 1/4	Main B/B links cleaning completed (IMS). Routine cleaning (IMS) - Governor valve dismantled, cleaned. Main oil coolers	. 1,20		
	16	16		cleaned. Governor repair (IDA) - All wearing parts honed amouth. Clamp on steam range repaired. Condensor tested (IMS) - 7 tubes plugged.	128 162		
	23 24	23 25	31 51	Condonner tested (IMS) - 3 tubes plugged.	18	281	698
14	24 31	25 31	8 <u>3</u>	overspeed trip tested, operated at 3300 rps. Main oil coolers cleaned.	595 154	12	722
13	6	7		Worm governor bush changed (IDU).	589		
	31	31		Air and oil coolers cleaning progressing (IMS).	591	331	702
12,	11/13/	16	1,16	General overheal after 14,730 hr operation completed (1MS) - Cylinder upper half removed, steam reter and diaphragma examined, bettem half removed, exhaust trunk joint remeds, expansion piece overhealed and tested, aliding feet wachur adjusted. 3 stages diaphragms (2md, 3rd and 6th) renewed, other stage diaphragms and nozale blocks in good condition. All retor blading condition good, 6th whoul blade rivets good for two more years at least. Bearing metal good, excessive oil clearances readjusted. Alignment checked, distorted coupling faces dressed up, paper liners fitted. All condenser tubes removed, cleaned, condenser int shell painted, top rows of tubes renewed, air and water leaks tested, found tight. Various parts and auxiliaries inspected, overhauled and defected parts repaired or renewed.	186	416	328
10	17	18	161	Routine cleaning (IMS) - CP 'A' & 'B' motors cleaned, starters overhouled.	1,636	16 <u>k</u>	720
9	20	20	12		516	12	722



#### SHANGHAI POWER COMPANY

TG	Da		llours		Operating	Total Ho	
No	0/0	1/3	o/c	Type of Inspection & Work Done	Last o/e for Maint	Hot Available	oper-
8	L,	14	6	Brushgear cleaned (IES) - Hain oil cooler cleaned.	406	,	
	20	20	13	All slipring brushes changed (IHS) - Excitor brush gear cleaned, examined.			
	27	27	23	Condensor tested (IMS) - No leaks.	136 166	10	726
7	2	2	1,3	Routine cleaning (IMS) - Governor valve cased, cleaned, oil loaks repaired.	494		
į	3	4	111	Condenser tested (IMS) - One tube plugged.  LP balance pipe joint remade.	19		
i	11 15	11	6k 7	Routine cleening (IMS). Worm and worm whool examined (IMS) - Pedestal	151.		
į	31		2	insulation tested.  Houtins cleaning progressing (IMS).	77 369	314	631
5	2 20	2 20	2 6‡	Cylinder cover manholo joint remede (DA).  Cooling water pipes in boarings tightened  (DA) - Gland steam loak off valve over-	1.8		
	22	22 27	11	hauled. 23 kv and neutral OCB overhauled. Condensor tested (IMS) - One tube plugged.	40 <b>3</b>		
- {	27 31	27	232	Emergency valve repacked (IMS).  Air washer gear box repair progressing (IDA).	127 66	343	653
1.	1 16 23	1 19	2 16 216	Brushgear routine cleaned (IMS). Routine cleaning (IMS). General overheal after 12,864 hr operation	174 374		
	~)		~	programing (IMS).	72	234	446
1	12/31/	47 1	2	Bruches renewed (IMS).	80		
1	3	4	19	Routino cleaning (IMS).	18		
	10 20	11 21	5 k	Governor examinad (IMS). Routine cleaning (IMS).	116 156	49	491

Notes: - Unscheduled Cutages -

(a) Units taken out immediately (IDU) 
TG No: 18 12 Total

Times o/c 1 1 2

Hours o/c h2 312 362

(b) Repairs done on a deformed date (MA) - TG No: 15 5 Total
Times o/c 1 3 4
Hours o/c 32 312 352

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#### BHANGHAI POWER COMPANY

#### TURBINE HOUSE AUXILIARIES -

1 - Circulating Water Pumps (CMP) -

CMP 14 - General overhead after 10,360 hr operation completed.
CMP 15 - General overhead after 11,026 hr operation progressing.
Motor windings cleaned, switch overheaded, 0/L relay

cleaned, tested.

CWP 21,24,26 - Stuffing boxes repacked.

2 - Service Water Pumps (SMP) -

SMP 4 - Steam throttle valve repacked.
SMP 5 - General everhand after 11,911 hr operation progressing. Motor windings cleaned, switch overhauled.

3 - Air Compressors (Cp) -

Cp 1 - Belts tightened. Cp 3 - Routino cleaned, bearings adjusted.

#### FLOATING EQUIPMENT -

Coal Lightern (CL) -

CL 21-23 - General overhaul progressing.

#### MISCELLANEOUS MECHANICAL EQUIPMENT -

1 - BH 4 Steam Range: Valve packing and one valve bridge renewed 1 - BH 4 Steam Hange: Valve packing and one valve bridge renewed on MB 4/4 and MB 5/4.
 2 - BH 2 SW Line: Several LP frozen valves overhauled.
 3 - TW Booster: Fump overhauled.
 4 - Office Hot Water Beiler: Eciler opened, cleaned. 2 Heaters cleaned int of scale. Heliof valve ground in.
 5 - BH 4 Lift: Wire ropes examined, lubricated.

#### ELECTRICAL EQUIPMENT -

1 - 23 kw SH Equipment -

23 kv SH Equipment 
BP 1, BS 2-3, Re 3, BP 3 & Chapei - OCB overhauled.

Aux North B/B - B/B routine cleaned. Cellwork and isolating link for the following cleaned, examined:

BS a, AD 13, AD 14, BP 5, AE 25, AE 26, BP 6, AA 52, AG 20, AG 21, BP 7, AG 17.

Aux South B/B - B/B routine cleaned. Cellwork and isolating link for the following cleaned, examined:

IT 1, AK 36, IT 2, ST 7, BP 1, TG 7, ST 8, AB 3, AB 4, TG 16, BP 2, AB 9, AB 10, HST 1, AB 7/8, BP 3, AC 6/31, AC 23, AC 24, BS A.

Sections 3, 4, 5 & 6 Main B/B - B/B routine cleaned. Cellwork and isolating link for the following cleaned, examined:

AC 33, Re AN, HST 2, AH 53, BS 2-3, Re 3, BS 3-4, BP 4, R& 4, BS 4-5, Re 5, BS 5-6, Re 6, BS 6-7.



BHANGHAI FOWER COMPANY

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- 2 Converters -RC 1, 2 & MC 4 - Brushgears cleaned, worn brushes changed. RC 3 - Undercutting and machining of commutator progressing.
- 3 Transformers -ST 7 - 23 kv & 350 amp OCB overhauled. ST 13 & ST 16 - 6.6 kv & 350 amp OCB overhauled. HST - Earth fault on control cable located & repaired.
- 4 Station 'C' Equipment -IDF, FDF, PAF & Ph - Motors, switches, controllers, routine cleaned.

  PFF, SC & FF - Motors and switches routine cleaned.

  PMF 5, 6 - Control relay broken pins renewed.

  WF 7, PM 7, PMF 7 - Motors, switches, controllers, routine cleaned. VF 7 - Emergency stop button installed. EF 7 - Defective motor bearing required PMF 7 - Emergency stop button re-located.

  CTP - Alarm and signalling system re-installed.

  BH 5 Lift - All equipment routine cleaned.
- 5 Miscellancous -
  - (a) Construction of amoke signalling panel progressing.

    Multicore cables for relays installed in position.

    (b) Indicating lamp boxes for BH 5 soot blowing and ashing installed.

    (c) Starting switch for coal briquette motor overhauled.

  - (d) Defective BH 4 lift brake, colemoid repaired.

#### RIVERSIDE WORKSHOP -

- 1 Overhauled 14 motors, 3 exciter armatures, 2 DC generators, verhauled 14 motors, 3 excitor armstures, 2 DC generators, 1 synchronizing motor, 6 transformers; machined 60 copper socket adapters, 230 copper connectors, 170 commy regardts, 2 MS motor shafts, 50 copper contacts, 32 copper sockets; made 4 CI pole brands, 40 grid type fuses, 10 cable potherads, 2 copper jointing alseves, 150 copper flag sockets, 10 copper tubular cable mockets, 21 moving sparking contacts, 4 flexible copper connections, 12 sets anchor brackets, 50 sets brass safety washers, 30 GI tags, 3000 sticks solder, 800 cone insulators; repaired 1 short circuit gear; reconditioned 1 set pole transformer links, 6 copper joint sleeves, 29 MS back plates.
- 2 Machined 1,152 MS ASTR & brass bolts, study and screws, 400 brass bolts and nuts, 250 MS Ex tubes, 200 brass plugs, 200 fibre bushes, 150 brass expansion joints, 150 MS nuts, 100 steel tube cleaners, 130 MS pipes and pipe ends, 84 nipples, 94 CS flanges, 613 miscellaneous articles for various purposes; emery finished 170 Ex tubes and cape; ground CI transformer shells, 2 strel cutting blades; bent 10 binding wire bands; made 9 MS coal pipes, 5 CI sprocket whools with MS shafts. 4 MS slobe and angle 5 CI sprocket whools with MS shafts, 4 MS globe and angle

SHANGHAI POWER COMPANY

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valves, 4. GI buckets, 6 MS crank shafts, 3 MS 'T' pipes, 1 set CI face machine, 2 MS strainers, 2 MS angle stand, 30 sets steel links, 12 CI comes, 4 ash buckets, 3 steam heaters; repaired 2 bolt cuttors, 1 serem jack, 1 masonry saw cut machine, 48 burner tips, 6 CI gear boxes, 1 brans bush, 6 FO pipes, 28 pipe flanges, 1 governor link, 20 sets brace bushes, 1 coal crusher machine; overhauled 1 blower, 3 steam valves, 2 Copes valves; tsated 8 steam pipes, reinstalled 17 sets bearings, renowns 1 CI impeller and brase sleeves, 1 set LE large wheels; balanced 1 TDF impeller.

- 3 Made and fitted roof trums for BC 41 & 42 housing, 6 MS Ph hoppers, 1 MS hopper; made 2 MS baffles, 1 MS door, 1 MS cable channel, 1 MS furmel, 2 MS covers; renewed 1 MS Ec baffle, SG 23 wall casing plates, BC 26 stool structure; bent 19 MS pipes, 20 beiler tubes, & 'U' beits, 1 MS plate, 1 copper tube; straightened 4 MS shafts, 2 MS angles, 4 MS spanners; annealed 125 beiler tubes, 300 Ec tubes, 252 Ec cap beits and nuts, 28 MS beits and nuts, 8 copper tubes; tempered 50 steel expander reliers, 36 steel oprings; forged 6 MS pinions, 60 cold steel chisels, 24 MS belts and nuts, 18 copper fixed sparking contacts, 403 MS and brass beits and nuts, 928 MS articles for various purposes; repaired 280 tube cap bridges, 2 belt cutters, 96 steel chisels; cut 28 MS plates and bars.
- 4 Electric welded 48 pipe flanges, 2 pipes, 2 transfermer tanks, 3 stomm heating radiators, 50 FC tube clamps, 4 MS angle guard f frames, 2 MS funnels, 2 MS plates and gratings, 250 concrete pole base frames, 5 shafts, 3 valve bodies and seats, 2 gear wheels, 40 cross arms, 13 square stay clamps; gas welded 6 gear box bearings, 1 pump casing, 2 valve seats, 1 trap chest, 26 links, 38 pipes, 80 alip containers, 3 FO pipes, 4 window frames; gas brazed 10 sets transfermer tails, 40 grid fuses, 7 brass impellers, 9 brass troiley wheels; gas refaced with stoodite 32 IDF blades, 3 valve seats; galvanized 1350 and tinned 626 articles for Distribution Department.
- 5 Foundry produced the following castings:

22,216 lb cast iron
320 lb HD brass
5 lb GP brass
2,135 lb brass ingots
620 lb coppor ingots

- 6 Building & Wharf Maintenance:
  - (a) Repaired window frames of BH 4 and Office Building.
  - (b) Maintenance work to all plumbing and piping work progressing.
  - (c) Removed steel windows in Station 'C' 5th floor and upper half ventilators on TH roof.



SHANGHAL POWER COMPANY

- (d) Construction of rotaining walls on 3 sides of Coal Storage 'A' completed.
- (c) Reroofing of TH progressing.
- (f) Reconditioning and decoration of Conference Room completed.
- (g) Extension of Workmen's Service Building progressing (80% completed).
- (h) Renovation of parts of BH 4 walls progressing (20% completed).
- (i) Glased 1300 missing window pages in Station.
- (j) Removation of Riverside Inquiry Office and installation of barriers and turnstile progressing (70% completed).
- (k) Erection of brick housing for BC 41 42 progressing (70% completed).
- (1) Erection of cable duct near TG 7 progressing (70% completed).

#### MISCELLANEOUS NOTES

The labour roll at Riverside totals 1319 including 19 Foreign and 80 Local Agreement, 39 Russians, 9 Subsidiary Staff (Foreign Watchmen), 23 Chinese Apprentice Engineers, 1 Student Engineers and 1148 Chinese Staff.

No major labour troubles were reported during the month and it can be said that the general standard of work has improved slightly.

The Labour Union held an inaugural meeting on January 8, and a number of workmen were given leave of absence by the Management to attend this meeting which was held for the purpose of electing a new body of Union officers. Switchman GR 11 was elected to serve on a full time basis as Riverside Branch representative. This was agreed to by the Management and a new switchman has been assigned to take over his duties in the Control Room.

Some nine Trade Apprentices concluded their training period on January 21, following which a meeting was held at the Head Office and recommendations were submitted to the Management on this subject.

The Student Engineers at present on duty at the Rotary Board have now reached a stundard comparable to the Russian Switch Board attendants. Further training will be continued to make them proficient in 'Starting' and 'Stopping' the Rotary Converters, which operations were not called for from the Russian personnel.

SHANGHAI POWER COMPANY

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On completion of their four year training period, these traineds could be considered as Rotary Operators on the Regular Staff and their special educational training would automatically coase.

The nurvey of requirements for the number of rubber boots and raincoats has now been completed.

Complaint lodged by the workmen alloging the Company's briquettes as being poor in quality was not considered as fully justified, but higher grades could be made available at a correspondingly higher cost. The main complaint being against the reputed excessive smoke, the use of riddlings in the mixture could be eliminated and same replaced by anthracite; tests on various grades to be undertaken.

#### GENERAL -

#### Staff -

Puring the month we lost the corvices of two Operation men - one Charge Engineer (died) and an Assistant Charge Engineer.

An Engineer-Trainee after satisfactory completion of his 3-month training period was engaged as an Assistant Engineer in the Machine Shop.

The training of BH Attendants is proceeding very satisfactorily, and consideration is to be given to the engaging of additional men for training.

#### Operation -

Record Daily Generation - The plant continued to be operated at maximum output of available equipment, the maximum generation for the month occurred on January 22, 1948, ie, 3,294,508 Kwh.

Our total station not output decreased by 0.72% from last month, namely 88,639,613 Kwh as against 89,282,846 Kwh, this decrease being due to less Station 'B' generation, TG 4,0/c for general overhaul despite approx 17% increase in Station 'C' generation.

The hourly station net output increased by 0.24% from 145,740 Kwh to 146,090 Kwh.

The load factor based on gross generation decreased from 81.88% in December to 61.31% for January.

#### SG UNITS -

#### SG 31 -

This unit operated very successfully throughout the month having completed 13,09% hours continuous operation.

Apart from excessive and increasing pressure draft (now 3 in.) across the preheater which indicates an appreciable degree of clogging, it would appear that we could look forward to a much longer run.

. It is proposed to take this unit off load during the Chinese New Year period for thorough cleaning.

During the month we were forced to alter our optimum fuel ratio on this unit, as owing to an acute coal shortage we had to recise the coal fired to this unit by 100 tons daily with consequent increased oil consumption of approx 50 tons daily.

Whilst this alteration in fuel ratio, now 60% oil and 40% coal increased our slagging problems considerably, we were able to maintain the unit in successful operation.

We have to record the lifting of a safety valve on the LH superheater outlet during light boiler leading; after a very short time the valve reseated itself and no further difficulties in this respect have been encountered.

#### General -

As usual, a considerable amount of maintenance and repairs were carried out on SC units, a total of 2,765 hours being spent upon repairs and overhauls of all units. The major overheal including re-headering of SC 26 is proceeding satisfactorily, the workmen have frequently to be taken away from this unit for more urgent work.

The unacheduled outages show a decrease from previous month, namely 3 as against 5, the deferred outages show an increase, namely 21 as against 7 for previous month.

The total hours 90 were o/c for unscheduled and deferred outages show a decrease, namely 307 hours as against 542 for previous month, and were made up as follows:-

Unscheduled Outages - 92 hours as against 457 hours.

Deforred Outages - 215 hours as against 85 hours.

Tupe renewals registered a considerable increase, namely 75 as against 12 for previous month.

Major maintenance work for the month consisted of the following:-

```
SG 29 - o/c 375 hours for annual overhaul; completed.
SG 26 - o/c 744, hours for general overhaul; work progressing.
SG 15 - o/c 456 hours for partial overhaul; work progressing.
SG 13 - o/c 154 hours for general overhaul, 63 Ec tubes renewed;
completed.
SG 11 - o/c 201 hours for partial overhaul; completed.
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SHANGHAI POWER COMPANY

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#### TG UNITS -

Major overhand of TC 12 completed and unit in successful operation.

Major overhead of TG 4 unit after 12,864 hours operation commenced on January 23.

Apart from TG 1, and TG 12, all work on TG units was of a routine nature this month, and as in previous months, practically all such work has been carried out at week-ends and other off peak periods thereby necessitating considerable overtime payments.

Apart from TG 4 and TG 12 which were o/c for general overhaul, the total hours TG units were o/c for all causes, amounted to 250% hours only.

Unperheduled Outages - 2 - totalling 36th hours.

Deferred Outages - 4 - totalling 35th hours.

#### ELECTRICAL -

Electrical work during the month was mostly of a routine nature.

The repairs of two Westinghouse 4200 kva Transformers by an outside Contractor are proceeding slowly. This work is receiving regular supervision by our engineers.

Lesigns and specifications for main office lighting circuits in progress.

#### FUEL OIL SUPPLY -

Find oil consumption for the month totalled 31,117 long tons, the maximum daily consumption being 1,090 tons and average daily consumption 1,003.77 tons.

### WORKSHOPS -

The Workshop continues to be overloaded with work necessitating considerable overtime and the placing of work with outside Contractors.

The Winding Shop is heavily leaded with repair work, approx 6300 Kwa of Transformers, 4000 hp motors and 2000 Kw of BC equipment undergoing repair.

# REMABILITATION & CONSTRUCTION -

Erection of platforms above underfeed stoker gear - 33 18, 20, 22 & 21: completed.

Construction of reinforced concrete retaining walls - Coal Storage 'A': completed.

BHANGHAI POWER COMPANY

Conference Room - reconditioning and decoration: completed.

Renewal of 4 Ash Chutes, Painting, etc, at Ash Wharf: completed.

Re-roofing of Turbino House: Work above Pump Bay No. 2 - 100% Control Room Roof - 100% completed. Work above Turnine House completed. 60% completed.

South Wing Extension Workmen's Service Building. Dwg 21/342, sheets 40-41-42 - progressing, 80% completed.

Removation of parts of the North, South, East and West Walls of Boiler house No. 4 as shown on Brawings - progressing, 20% completed.

Glazing of missing window panes for Station - 1300 panes set.

Renovation of Riverside Inquiry Office and Installation of Barriers and Turnstile - progressing, 70% completed.

General overhaul of Coal Lighter Nos. 21-23. - progressing. 80% completed.

Erection of Brick Housing for BC 41-42 - progressing, 70% completed.

Erection of cable duct mear TG 7 am per Dwg. HX-D-23/315 progressing, 70% completed.

Supply of electrodes, tools, labour, etc, to carry out the building up by welding of 1100 tube holes and 50 nipple holes on 100 economiser headers - progressing, 30% completed.

TG 6 - ex Hongkong 10,000 kw Unit; equipment arrived on site and suitably stored.

- (1) Condenser returned to original position on Mat. (2) Patch put on both outer sides of condenser body at the junction of the vertical and herisontal flanged joints.
  - (3) Re-conditioning condensor water-boxes in progress.
    (4) Erection of pedestal re-infercing steelwork and formwork commenced.

FUEL -

Coal receipts were 9,154 tens during January, made up of two kinds of coal; 17,362 tons were burned and 1342 tons issued by Stores, making a total of 17,4962 tons. Total stocks on February 1, 1948 (8.00 am) were 13,0372 tons, commisting of 10,8062 tons on mechanical storage, and 2,231 tons in bunkers. Coal deliveries during the period were 8,3422 tons less than burned plus issued, and stocks were decreased a like amount.

Oil receipts were 31,010.59 tens during January and 31,117 tens were burned, thus decreasing stocks on February 1, 1948 (8.00 am) to 2.110.08 tons.

BHANGHAI POWER COMPANY

#### MUD DREDGING -

During the month 4,640 cubic yards of mad (29 lighters of 160 cubic yards per lighter) dredged from in front of our whares and

#### COKE & BRIQUETTES -

During the month no coarse coke was recovered from ashes, and 125,400 lb issued for Company use, leaving 701,927 lb in Stores on February 1, 1948.

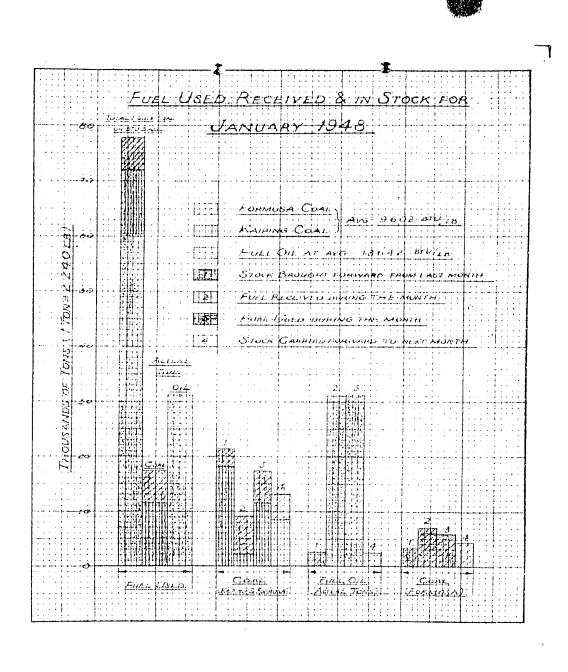
During the month 404.43 metric tons of anthracite coal was received from local suppliers and 121.20 metric tons of anthracite issued for the manufacture of briquettes for sale to employees. Total amount of briquettes made was 345.8 metric tons, of which 320.8 metric

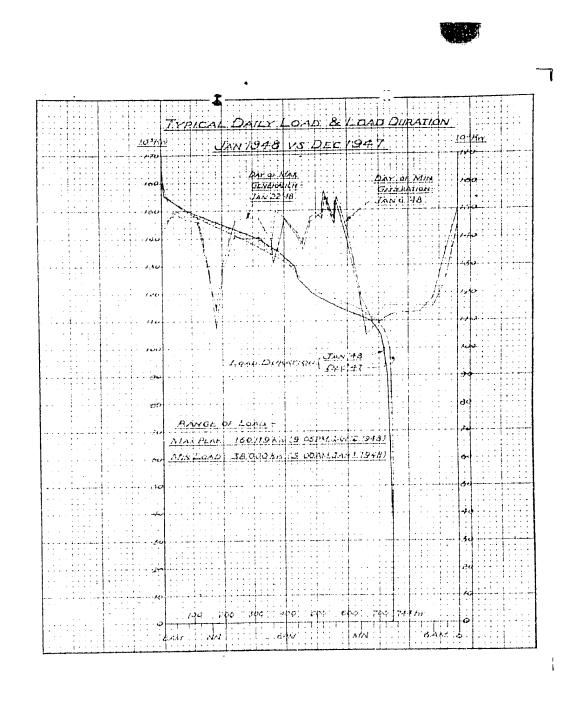
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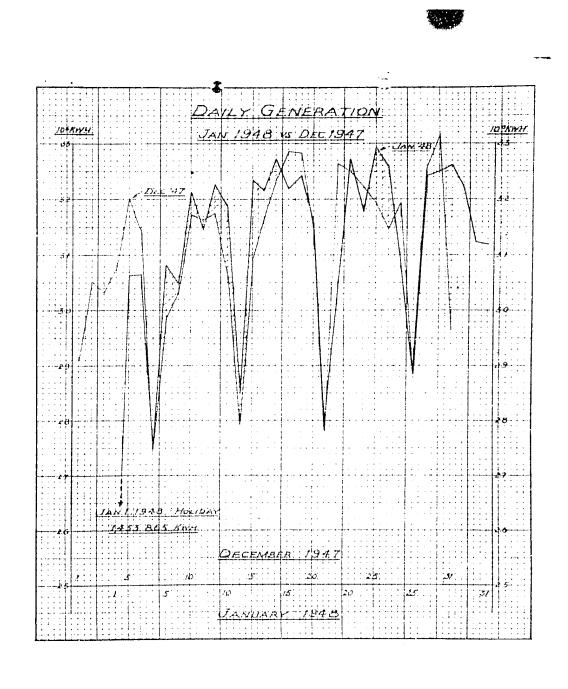
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Encl: SG Water Report
TG Oil Report
Characteristic Curves

Shanghai, February 28, 1948.







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SHANSHAI POWER GOMPANY

January 1948

# SHANGHAI POWER COMPANY AND MESTERN DISTRICT FOWER COMPANY OF SHANGHAI YEDGERAL INC. USA

# DISTRIBUTION DEPAREMENT

### $\overline{\mathtt{T}}$ $\overline{\mathtt{N}}$ $\overline{\mathtt{D}}$ $\overline{\mathtt{K}}$ $\overline{\mathtt{X}}$

r.	OPERAT	ION	Pago
	(A) (B)		z
	(c)	taps changed, and under observation	9
II.		· · · · · · · · · · · · · · · · · · ·	11
	(A)	oil tested	15
	(B)	Oil circuit breakers: Overhauled, tripping mechanism	
	(0)		15
	(a)		16
	(E)		16
	(F)	Secondary Substations: Regular and special maintenance	17
	(G)	Overhead lines and street lighting: Overhauled and	19
	(H)	inspected	20
	(I)	Underground lines: Inspected, faults located and repaired Buildings	21 22
III.	COHSTRU	CTION	
	(A)	Sorvices	22
	(B)	Ororhead lines: Installed and selvaged	23
	(c)	Underground lines: Installed and salvaged	23
	(D)	Substations	24
	(E)	Bulk Supply metering	24
	(F)	Various work	25
IV.	WORK DO	NE FOR CONSUMERS	25
v.	STAFF		
	(A)	Changes	26
	(B)	Accidenta	26
VI.	Mischil.	EUOSIIA	
	(A)	Theft of materials	26
VII.	TRANSPO	RT	
	(A)	Motor vehicles, operating data and maintenance	27
	(B)	Major haulago joba	29
	(0)	Bicycles, service and maintenance	31
	(Œ)	Handcarts, service and maintenance	31
	(E)	Transport workshop	32
	(F)	Accidents	34
	(a)	Staff	OF IS



GWER CONTAIN

The following outlines the activities in connection with operation, maintenance and construction work in this Department.

#### I OPERATION

#### (A) SERVICE FAILURES AND TROUBLE CALLS

- (1) Major Service Failures
- (a) Load Reduction due to insufficient electrical (E) and/or steam (S) generating capacity at Riversida

	generating	AM - refere	to morning	peak lond pe		to 12 noon)
Insufficient electrical and/or storm generating		E	E	r & S	E & S	Ľ
	Total	4160	1150	693	27925	7160
Lost	French					
mated CVA-IRS	Chapei					
Esti-	Company * s	PM 4186	PM 1150	K: 693	1M 27925	1% 7160
Duration of supply interruption		56 mins to 1 hr 2 mins	16 mins	to to 10 mins	1 hr 13 mins to 2 hrs 28 mins	40 mins to 1 hr 41 mins
Gus	toner	Shanghal 4 Tung Yih	Sung Sing	Shanghai 5 Shanghai 4 New China Text	9 customers & LV net- works	NWK 1 & 2 NWK 6 & 7 NWK 5
Fo	uder	G 5 G22,23	CC 101	00 101 9 5 00103	9 feeders	NWK 1 & 2 C 7 C 8, 9
r	pply rom tation	Yangchow Tonquin	Tenquin	Ynagehow Tonquin	Yangchow Tonquin	Robison Tonquin
	ron octod	SPC	SPC	3PC	SPC	SPC
ν	ato	Jan 3	Jun 3	Jon 10	Jan 12	Jan 14

#### SHANGHAI FOWER COMPAN

(a) Lond Reduction one to insufficient electrical (E) and/or stemma (S) penerating capacity at Riverside (continued)

Ľ	late	Jun 15	Jun 17	Jan 19	Jan 19	Jen 20
	rea 'ected	SPC WDPC Chapei	SPC	SPC UDPC	SPC WDPC Chapei	SFC
	ipply rom itation	Yangenow Tonquin Robison	Tonquin	Tonquin Robicon	Riverside Yangchow Tonquin Robison	Yungchow Tonquin Shanghal 2/3
Fe	eder	lő feeders	000, 19/21 30 101	GC 103 NWK 1 & 2	9 feeders	9 facdors
Cus	tomer	Ló custouers & LV not- works	Hoong Chang Wing On S MWK 9 Sung Sing 9	New China Text MWK 1 & E	8 customers & LV net- works	d customers & LV not- works
Duration of supply interruption		26 mins to / hrs 36 mins	14 mins to 2 hrs 40 mins	13 mins to 1 hr 45 mins	i ar 33 min to 3 hrs 25 mins	10 mins to 33 mins
Eat 1-	Company's area	M1 83,990 PS 83,000	Alf 18,700	AN 5,320	A1 37,560 P4 7,760	Ev 4,970
mated . TVA-ERS	Jhapei	ACT POPUL			RI 0,920	
Lost	Franct.					
Total		71,880	13,750	: ,320	48,240	4,970
Insufficient electrical and/or stony generating capacity		E	S	ŝ	E	E
R	lonarks	AM - refers t PM - "	to morning " afternoon " evening	enk long per	(i2 noon	to 7 ma)

# (a) Load Reduction due to inpufficient electrical (E) and/or stoum (S) generating capacity at Riverside (continued)

α	ato	Jan 23	Jan 24	Jan 25	Jun 26	Jan 27
	ren ectud	SFC VDFC	ADI C	SPC DPC	SPC WDPC	SPC WDPC Chapei
ŗ	pply rom tation	5 sub- stations	13 sub- otetions	Riverside Yangchow Robison	13 sub- etations	d sub- stations
Fo	eder	. 11 feeders	29 feeders	t feeders	fil feeders	21 feeders
dus	toner	10 quateriers = LV qet= = weren	31 customers / LV net- works	0 customers 5 LV net- works	24 quatomera & LV net- works	21 customers 4 LV net- works
Duration of supply interruption		US ains to 3 hrs 12 ains	to mins to 3 hrs El mins	10 mins to 3 hrs 2 mins	12 mins to 3 hrs 25 nins	5 mins to 3 nrs 36 mins
	Jompany's area	AM 17,051 PM 23,400	A1 06,065 PM 60,095 EV 11,440	A. 6,160 Pt. 1,010	75. 59,105 FE 16,080 EV 13,716	AL 66,305 PM 44,330 Ev 7,782
Esti- muted	Chape 1					3,370 كىھ
Lost	French					
Total		50,461	158,697	0,130	.65,901	121,787
Insufficient electrical and/or steam generating capacity		Ŀ	Е	.3 m .1	2	Ľ
R	omarks	All - refers Pl - " Ev - "	to sorning " aftermon " evening	penk lood per		to 12 noon) to 7 pm) pm)

# (a) Load Reduction and to insufficient electrical (E) and/or stemm (S) Menerating enparity at hiversing (Continuous)

	Date	Jan 28	Jan 29	Jan 30	Jan 31
	Aren fected	SPC WDFC Chapei	SPC WDI-C	SFC WDFC Chapei	SPC
;	upply from station	lo hub- stations	17 sub- stations	SE syb- stations	lé sub- stations
F e	oder	24 feeders	25 feeders	30 feeders	16 feeders
Cus	stoner	26 customers 5. LV not- works	St customers 8. LV net- works	32 customers & LV het- works	19 customers & LV net- words
Duration of supply interruption		é mins to 3 hrs 39 mins	7 mins to 3 hrs 17 mins	lb mins to 3 hrs 54 mins	8 mins to 3 hrs 18 mins
	Company's	AM 64,050 PM 15,600 Ev 14,540	AM H1,060 PM 26,060 Ev 35,231	AM 53,530 PM 36,076 EV 53,700	MC 13,130 PM 15,170 Ev 7,950
Esti- mated	Chapei	AM 1,285		AM 1,890	
VA-HRS Lost	French	T.			
	Total	30,430	88,881	156,179	36,250
loctris atown &	ficient al and/or enerating acity	E	ន	S a. Z	5 e. E
Re	mrks		orning   cur fternoon " evening "		um to 12 noon) noon to 7 pm) er 7 pm)

#### SHANSHAI POWER COMPANY

#### (b) Other Causes

Dat	:0	Jan 8	Jan 10	Jan 13	Jun 14
Are		SPC	SPC	WDPC	SPC
Supp fro Subst	om	TungYih	Chunichi Heavy Industry	Edinburgh	Chunichi Heavy Industry
Foo	der	Tung Yih	_ " _	M2 & M3 O/H Lines	_ " _
Cust	oster	Tung Yin		35 customers & networks	_ # _
Çaun fai	e of lure	Not deter- mined	Fault on consumer's equipment	A cut entered Aux B/B Coll M3 Feoder	fault on consumer's equipment
Fau clen by	red	Transformer OCB	D.O.Fuses	M2 & M3 OCBs opened by operator	D.C.Fusos
Damas; equip		None	None	None	None
Dura of au interr		på mins	22 mins	2 mins	29 mins
	Company's area	20	200	6300	200
Loud	Chapei				
arrected KVA	French				
	Total	20	200	6300	200
Remorks					

<b>R</b>		***				$\boldsymbol{C}$ )
	BRAINE	MAI POWER CONFAI	<u> </u>	Ó	- 7 -	
	(	b) Other Cau	mes (contin	neg)		
	٦	Dat	.0	Jan 15	Jan 18	
		Are		Chape1	Chape1	
	-	Sup fre Subst	om.	Connaught	Connaught	
į.	Ī	Foc	dor	E 11	E 11	
,    -		Cust	omor	Chapei Chang An	Chapei Chang An	
	ļ	Caus fai	o of lure	Overload	Overload	
		Fau clea by	red	E 11	E 11 OCB	
, i		Damag	e to	None	None	
•		Dura of su interi	tion apply ruption	4 mins	9 mins	
			Company's			
		Lond	Shapei	1,000	3,200	
		KVA	French			
			Total	4,0∞	3,200	
		Ranarks				
دروسته و الموسالة و ال		L				



#### DMANSHAI POWER COMPAN

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# (2) Classified Service Failures (including Item 1)

### (a) Caused by Defective Equipment

<b>E</b> cui prent		Number of Failures			
		This Month	Last Month		
Cverhead lines:	VI.	_	1		
	LV	3	1		
Underground lines:	Cablas	i -	1		
	Joint.		1		
	Fotheads	ì	1		
Transformers and voltage re ulators		-	1		
Switchgenr			1		
Power fuses		<u>-</u> .	1		
Protective equipment		-	-		
Traction equipment			-		
Metering equipment		-	-		
Current and potential transformers		-	-		
Street lighting: :					
·	aultiple.	7	10		
Other Company's equipment		-	2		
Total (e)		11	20		

#### (b) Other Chases

		Number of Failures			
Gaussia of Pailwre		This Lonth	Last Month		
Foreign agencies:	Cverbead lines	5	3		
	Street limiting	1	-		
	Underground Times	· -	-		
Tram trolleys:	Overnosa line:	-	-		
	Street lighting	:,	7		
Treft of equipment		-	-		
Typhoons and storag		-	-		
Lightnin,		-	-		
Flood		<u>-</u>	. <del>-</del>		
Fire		1	· -		
Vormin and birds		1			
Overload		-	4		
Customers' equipment failures:					
	Company's area	3	3		
	Ex franchise area	3			
Company's stuff:		-			
	Fouled by workmen	_	1		
Generating station	trouble	10	22		
Undeter-ined			2		
	Total (b)	ಚರ	42		
Total (a s. b)		49	62		

lere.

# (3) Trouble Calls attended to by System Trouble Section

		Number of Calls				
	This Month		Last Month			
	SPC	WDPC	TCTAL	SPC	WDPC	TOTAL
Company's Installation						
23-kV overhead and underground lines	i - I	-	-	-	-	-
6,600-volt everhead and underground lines	5	2	7	12	2	14
380-volt everhead and underground lines	11	년	19	4	9	13
Street lighting lines and equipment	45	9	54	62	10	72
Traffic signals	118	7	125	150	Ė	155
House service connections and wires	69	24	93	121	35	156
Substition equipment		1	1	1	-	1
D.C. Traction equipment and lifts	1	-	1	1	-	ì
Fire calls	61	15	76	42	4	46
False alarms	-	-	-	3	-	3
Miscellaneous	7	1	е	10	3	13
Customers' Premises				ĺ		
Lighting	720	042	962	928	249	1177
Power	110	63	173	122	56	178
Heating	80	13	52	44	16	60
Total Trouble Calls Attended to	11/16	385	1571	1560	389	1889
Average per day	38.3	12.4	50.7	48.5	12.5	60.5

#### (b) TRANSFORLERS ALL EBULLATORS

# (1) Connected and/or Disconnected from Service

#### SPC

Y = 4	Capacity in KVA		Remarke	
Location	Connected	Disconnected	Nomal RB	
TRC Control Chemical Work	225		New installation	
Kotobuki Lumber OT		125	OT dimmantled	
Weinan	1,25		Temporary for relief of load	
Forry-Wutine Pr	325		New installation	
Januer-Yangtszepoo PP	621		New installation	
Tonquin	1600	1000	Found voltage unbalanced (B phase) on Tap No. 5	



SHAMBHAI FOWER COMPAN

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MDPC

Location	Capaci	ty in KVA	B		
LOCAL TON	Connected	Discennected	Remarks		
East Too An Pang PT	225		)		
East Too An Pung "A" Pr		62 <u>1</u>	) Lond increase		
Boot Too An Pane "B" PT		50	)		
Jessfield-Kinneer PT	325	225	Load increase		

(2) Taps changed for Notwork Voltage Regulation 5 5
(3) Switched on or off for leading or other operational purposes 4

(4) Under observation due to overload or overheating

SPC

Location	Capa- city KVA	Туро	≱lo %	llourn aurn- tion	idax oil top tumi	ent	Temp rise	Renarka
Robison-Gordon PT	32ti	Outdoor	103	· 1	65	91	552	Load transfer under
Yatos PP	225	13	103	1::	26	4	22	
Toa Tobacco Co.	225	n	126	1 15	62	146	472	Transformer to be onlarged
Bubbling Well	200	Indoor	108	1,	38	10	276	į .
" " VR	260	"	130		34	10.	23	ļ
Da An Rubber Fac. OT	225	Outdoor	132	1	36	10	26	In hand of E.D.
Singapore-Kiaschow PT	225	"	170	i n	48;	10,	38	90% transferred to Kinochow LV net- work on Jan 14.
Tatung Pr	225	ri	  109		34	44	29}	Lotter to ED.
Taepoo-Kansuh PT	225	•	111	Ŷ	45	87.	36	İ
Shanchai China Morchan	tzs	I	1	1		- 1	001	
Stock Exchange	125	.,	116		200	7	217	
Elgin PT	225		100	- i	16	3	13	
Custom House	325	Indoor	110	*	44	93.	35	İ
Tatung PT	225	Outdoor	1.09	3	36	9	29 <sup>1</sup>	
Taepoo-Kannuh PT	225	•	111	the state of the	45	10	36.	
Yangtazopoo Dalny PT	125	-	113	T i	43:	15%	32	
Chaoufoong CM	325	Indcor	105		55	15	40	
Widow's Monument Pr	225	Outdoor	111	CHO CHO	35	6È	287	
Jeonfield-Yu Yuon PP	125	"	121	i i i	42	15	202	
Kung Dah No.1	50	Indoor	132		44	0	44	Under study by ED.
Pingliang-Tinghai PT	125	Outdoor	158	ti	34	-3	37	Under study by ED.
B'Woll-Gordon PT	225		103	4	31	-7	30.3	
Muting Pr	225	"	111	4 2 3 kg	18,	0	185	
Sung Sing No.6	940	Indoor	115.		52	12	40	
_ # _	940 940		100	i.	50 <sup>1</sup> 51	12	39 <u>}</u>	



MANGHAL PERIOD COMPANY

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WOPC

	Capa-	i	1757	Lond	Max	Ambi-	_	
Location	city KVA	Туре	g;	llours dura- tion	oil top tomp	ent tonn	Temp rise	Remarks
Kinochow-Penang Pr	325	Outdoor	106	d.	29	8	21	
Great Western Riding	1				[		}	i
School PT	325	"	102	1	41	12	29	{
Zao Ka Yih PT	225	"	106	1	30	9	21	1
Chen Ka Juo "A" PT	20	"	100	1,,	11	4	7	Į.
Columbia-Gt.Western PT	125	.,	126	1,,	42	8	34	
Lee Ming Iron Works GT	225	"	117	1	37	12	25	İ
Dan Chung iwa Flour Hill	-25	Indoor	122	1	56	6	50	160≤ transferred
		i			l		ł	to Kung Y1h LV
			ì					network
Ano Ka Yih Pr	225	Outcoor	112		39	17	23	i
Wost The An Pane PT	325	"	100	6	64	18	47	
St. John's Pr	225	"	105		44	а	36	
Great Western-Lincoln					1			İ
Ave Pr	35		104	4	4	-1	5	
Chung Woo PM	325	Indoor	118		63	12	51	
The Chore Hain Glue	}	İ						
Fuctory PT	625	Outdoor	138	: e	37	10	27	Transformer to be enlarged

# (c) MISCELL DECUS TESTS

Units	Equipment	Voltage	linture of test	Reason for test
1	Current transformer ecopound filled 300/5A for uplit conductor protec- tion, make BTH	6,600	Heat run	To investigate the current rating
12	Bushing insulators, indoor type, make CHP	6,600	Overvolta, e and spark over	Acceptance
10	Pin insulators and rubber insulated packing, make CHF	6,600	Overvoltage and apark over for pin insula- tors breakdown for rubber insulated packing	Acceptance
Ú	Bushing insulator, sutdoor type, make CHP	23,000	Overvoltage and spark over	Acceptance
1	Transformer, 225kVA. 3 Ø, make Forrenti	6,300 370	Continuity, insulation resistance, ratio and phening	After routing overhaul

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#### PHANTENAS POWER COMPANY

-	12	-
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Units	Equipment	Voltage	Mature of tect	Reason for test	
1	Induction voltage regulator, 183kVA, make IGK	003, ۵	Continuity, insulation resistance, pressure, phasing and telerance	After overheul	
2	Thermalarm, make Eastern Specialty Co. USA	-	Tripping temperature at 150 F setting	Acceptance	
25	Cone insulator nake Chec Hain	6,800	Overvoltage and flash over	Acceptance	
1	Syn. motor-Henerator No.1 at Fearon S, S	ახს	Voltage drop on shunt field colis	New shunt field coils of Westing house manufacture installed	
1	Syn. motor-Henerator No.2 at Fearon Sy3	bbú	Voltage drop on smunt field deals	To compure voltage drop on shunt colls	
1	Transformer, 225 kVA 3 \$, make Ferranti	6,300 370	Continuity, insulation registance, retio and phasing	After overhaul	
1	Duct aplice make SFC	-	Heat min	Investigation	
1	Syn. motor-generator No.2 at Yangenou Substation	5,8,0	Voltage prop on shunt field colls	To check voltage arop after re- ceiving trouble report	
1	Generating plant 2500 kVA in 07 II Mill Mo.b-7, con- swaer's property	6,300	Cverions, overvoltage, undervoltage & \$ dif- ferential protection	Prior to inter- connection	
В	Pyranol canacitor, make IGE, con- numer's projecty	-	Insulation resistance, capacity and power factor	Acceptunce	
20	Terminal bushing, indoor type	0,600	Overwoltage and flash- over	Acceptance	
1	LV terminal bushing, indoor type	380	Overvoltage and flash-	Acceptance	
1	LV terminal bushing, indoor and outdeer type	380	Gvervoltage and flash- over	Acceptance	

ee-73004	POWER COMPARY	

Units	Equipment	Voltage	Nature of test	Reason for test
1	Generating plant 2500 kVA in CT II Mill No.6-7, consumer's pro- perty	6,300	Voltage ratio of trans- former bank FT's po- larity for synchrono- scope, phase rotation	Experimental parrallel operation
1	Syn. motor-generator No.1 at Fearon S,S	550	Copper test of shunt field coils	Prior to com- missioning
-	Consumer's installa- tion at Chunichi deavy Industry	6,600	Ovorvoltue'u	After faulty equip- ment repairs
1	Stator coils of MG1 at Yangchow Sub- station	6,600	Overvoltage	After weagen have been renewed
5	Torminal bushing indoor type Anko	6,600	Overvoltage and flash-	Acceptance
-	Consumer's installation at Chins Textile machinery	-	Overvoltage, ratio, insulation and over- load test	After repairs
1	Syn. MG No.1 at Yangchow Substation	550	Insulation remistance, continuity	Prior to com- missioning
2	Transformers banks at CT II will 6 consumer's property	-	Victor relationship, water and coal num- pling	Inventigation
16	Bushing insulator, outdoor type, inke Lee Chi Industrial Co.	380	Overvoltage and flash- over	Acceptance
1	O/H line at Chunichi Heavy Industry	6,600	Overvoltage	After bushing insulators were renewed
1	Potential transfor- mor, make China Scientific Instru- ment Co.	13,206	Insulation resistance and pressure	Consumer's Engi- neor's Departmen request
10	Cone insulators Nos. 1 & 2, make Lee Chee Industrial Co.	No.1- 6,600 No.2- 380	Overvoltage and flash- over	Accoptanco



#### <u>PHANGNAL PEWER COMPAN</u>

_	7.2	_

Units	Equipment	Voltage	Nature of test	Reason for test
-	Insi-x No.11-6, make Insl-x Co.	-	Insulation resistance, breakdown voltage, heat run	Investigation
1	Generating plant 2500 kVA in CT II Mill No.19 consumer's pro- perty	6,300	Overload, overvoltage, undervoltage and \$\pi\$ differential protection	Prior to inter- connection
2	Fluorescent lamp starters make Solar & GE		Striking and operating voltage	Compart son
1	Transformer, 50kVA, 3 Ø, make Westing- house	6,200 350	Continuity, insulation resistance, pressure, ratio and phasing	After overhaul
1	Transformer, 625 kVA, 3 Ø, Juke AEG	6,165 369	Continuity, insulation resistance, pressure, ratio and phasing	After overhaul
1	Transformer, lokVA, 1 Ø, make IGE	6,600 110	Continuity, insulation resistance, pressure, ratio and plassing	After overnaul

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METAL PUTER COMPANY

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## II MAINTENANCE

Routing inspection, saintenance and testing of plant on the transmission and distribution system have proceeded according to programme.

# (A) TRANSFORMERS AND REGULATORS

(1) Overhauled (Core lifted, windings and connections examined, IR tested and oil changed)

Location	Capacity in KVA	Workshop	Reason for overhaul		
Tonquin	625	Fearon S/S	Over 10 years in service		
Yu Yu Ching IT	285		; 		
Wayside-Lay Pr	225	Riverside	•		
Meichow-Chaoyang PT	225	9			

WDPC

Location	Japacity in EVA	Workshop	Ronson for overhaul
East Tse An Pang "B" PT	50	Fenron S/S	Transformer overloaded
Blume's PP	10	Riverside	Transformer failed in service
MacLeon (H.117) FT	10	Riversiae	_ " _
. Hunt Club Pf	16	Fearon S/S	Over 10 years in service

		UN	ITS
		SFC	./DPC
(£)	Inspected on site	45	-
(3)	Oil-Dielectric tested	22	11

# (B) OIL CIRCUIT BREAKERS

# (1) Overhauled and Tripping Rechanism Tested

	Number of OCBs tested				
Reagon for test	2	IPC	WID	PC	
Readon . 1 Cast	Company's property		Company's property	Customer's property	
Routine and special maintenance	27	14	1.5	22	
Oil circuit broakers tripped	2	2	-	3	
New installution or operation resumed	-	10	-	4	
Total	29	26	15	ຂ໑	

M PEWER COMPANY

UNITS
SPC WDPC

 (2)
 011-Diolectric strongth tosted
 12
 12

 (2)
 011 changed
 18
 2

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# (C) OIL TREATMENT PLANT

	1	Transfer	mor Cil			Swite	n Oil	
Location	Innued	Returned	Filtered	Stock		Returned	Filtered	Stock
INCH VALL				U. 9.	gnllons			
Fouron Oil Depot	1,328	1,781	8,9014	8 <b>7</b> 5	640	626	1,840	740
On Site-	_	_	-	-	-	_	-	-
WDPC	-	-	-	-	-			
Total	1,389	1,731	3,301;	-175	640	626	1,340	740

# (D) PROTECTION, BATTERIES AND ELEPTIONES

# (1) Protection Tests

	Number o	
Type of Protection	shore tests	carried out
Overload and/or Eart., Leukage	29	15
Feeder or Transforter Balance	12	5
Total	41	20

# (E) Rolays

		Humber of	Rolay Elements	
_	SP		WDPC	
Турε	Circuit tested	Changed	Circuit tested	Changed
Inverse Time	17	_	_	1
Instantaneous	5	2	3	-
Total	22	£	2	1
10001	1		L	L



BUARTERN PERROR GARRESON

+ 17

# (3) Battorios

	Lond-Acid & Ed1	Lond-Acid & Edison Types		
Work dens	110 V in Primary Substations	30-v in Secondary Substations		
	3PC	SPC	MUPC	
Inspected, cleaned and topped up	19	11	ون	19
Equalizing charges conducted	3	_	-	-
Charged and discharged	2	-	2	-
Electrolyte changed	-	-	1	1

# (4) Auto-Telephone Equipment and Lines

Instruments	installed 5	
**	disconnected 1	
H	changed 2	
**	moved t	
11	overhauled	
**	faults repaired	
	located and repaired 1	
Switches ove	erhauled 1	
Exchange equ	sigment foults regained	
Miscellaneo	as equipment overhauled	

# (E) PRIMARY SUBSTACIONS

# Rogular and Special Maintenance

Substation	Com- pany	Equipment	Work done	complated
Fearon	SPC	Rotary plant	Overhaul of three 3,600 kVA synchronous motor generators and starting genera	60
Primary Substation			Changing of oil in the machines	90
Head Office			Overhaul auto.telephone motor generator	100
Fearon			Changing of two shunt field coil on MG 1 DC generator	100
Yangchow			Overhaul of two 3,600 kVA synchronous motor generator and starting goar	100
Tonqu <b>i</b> n			Inspection of two syn- chronous condenser starting gears and separate exciters	100



SHAHERAL POWER SOMPAR

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# Regular and Special Maintenance (continued)

Substation	Com- pany	Equipment.	Work done	% completed
Robison	WINPC	Switchgoar	Overhaul and overload test 23 kV oil circuit breakers	60
Fearon and Tonquin	SPC	Power trans- former		
Robison	WDPC		Inspection of main and carthing transformers	100
Fouron	apc	Instrument transformer	Overhaul and cleandown of filtment transformer for DC Kenotron set	100
Robison	WDPC		Inspection and eleandown of current transformers	60
Oil Depot		011 plant	Overhaul of oil depet plant and oil memp at Fearon Substation yard	100
Primary Substation	SPC & WDPC	Various sub- station equipment	Checking of all portable earth wire and clamp Testing of all rubber gloves Checking of all tools	.10 -80 -100
Primary Substation	SPC & WDPC	Batteries	Routine meintenance	To programme
Primary Substation	SPU	Safety device:	Inspection of safety de- vices and sheeking on artificial respiration proctice	То ргодганые



# (F) SECONDARY SUBSTATIONS

# Regular and Special Maintenance

Location	Gom- pany	Work done	completed	
Tsepoo	SPC		25	
Bubbling	"		85	
Range	,,		75	
Park (old)	,,	Biannual Regular Maintenancs	100	
Wing on 3			100	
Ynton Coal Briquette		Overhaul of switchgear, tenting	100	
	12	of automatic protective equip-	100	
Shong Te Weaving	1	ment, inspection of transformers	100	
Suy Woo	,,	and regulators, inspection of	100	
Wong Fon Mails Dah Wa Brass	.,	all electrical equiment and	100	
Gentral Printing No.2	,,	cleaning.	100	
	,,	CIGATILIA,	100	
Mei Kwang D & W			100	
Taung Tacong			100	
Nee Sung R			20	
Shanhaikwan	1		50	
NWK 3 & 4			100	
Chunichi Hoavy Industry	"		50	
Kanhing	1		100	
Ed inburch	'WE'C		100	
Tuck Fung CM			100	
Yung foons CL	. "		100	
Jupan-China	"		100	
All districts	Inspec	Inspection of fire extinguishers		
All districts		Inspection of snoorspied lands and vacant grounds		
All districts		etion of all wooden poles in Syards	60	
Eastern District		oul of four power transformers ouron Substation	166	
Western District	Completely elemndown and whitemash Robinson, Kung Yih, Brenan and Edin- burgh Substations		. 20	
All districts	Inspection of pole transformers		то то типе	
All districts	chock	Inspection of safety devices and check on artificial respiration practice		



#### BIOLOGICAL FORMER COMPAN

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# (C) OVERHEAD LINES AND STREET LIGHTING

# (1) Inspection and Overhead Lines (All Districts)

Byston	Locations where Maintenance of overhead
Voltago	lines has been carried out to programs
6.6 kV	Line to Kinnear-Edinburgh PT M2, M3 and C3 overhead line

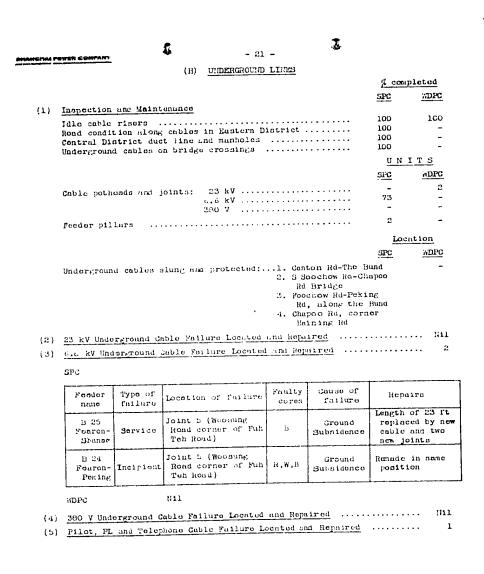
# (2) Repairs and Replacements of Overhead Line Equipment (All Districts)

Equipment	Inspected	impaired	Renewed
Stays	111		2
Brackets	682		<b>–</b>
Line switches	15		_
Lightning arresters	6		-
Insulators	1785		37
Pus en	76		-
Series transferiers	-		-
Lunp fittings	-		-
Lamp brackets	-		ļ <del>-</del>
Connections	-		-

(3) Poles and Pole Buses - Routine and Special Maintenance	SPC	::DPC
Poles inspected	167	419
Wood poles wainted	2	-
Iron poles sainted	-	-
Concrete noles repaires	_	-
Decayed wood roles renewed: Math	2	3
Suspension	3	-
Stay	-1	•-
Concrete bases inspected	139	409
Concrete bases repaired	_	-
Concrete bases renewed	11	5
Cast iron algeres renewed	6	-
Cast from sleeves replaced by concrete bases	_	-
Chaolate concrete sleaves replaced by concrete bases	-	-
	SPC	WDPC
(4) Street Lunps faulty and renewed		
Municipal street lighting	1736	253
The second second 1 second		142

# (5) Traffic Signal Switches

Location	Installed	Removed	Roplaced	Overhauled
Eastern District	-	-	-	1
Control District	-	i -	3	52
Wostern District		-	2	4



:	3PC								
	Foeder name	Type of failure	Locat	tion of fuile	urel	ulty	Cause of failure	Re	pairs
	4 pair Tolephone Humilton House- Shanghai Club	Service	Shur	e (93 feet fr nghai Club St tion in alley	ub- A	ll irs	Ground Subsidence	replace	of 60 ft. ne joint ced by nble and ew joints
1	DPC		Hil						
:	23 kV Unde	reround C	anle Pr	reventive ker	pairs			<b>.</b>	1111
_	.6 kV Und	erground	Cable I	Preventive Re	epair s			- · · · · · ·	N11
3	390 V Unde	reround C	able Pr	reventive Rep	pairs		· · · · · · · · · · · · · · ·	- <i>-</i>	Nil
				(I) 5!IILI	ntras				
					2337112			si o	carpletea
	İ.	ocation		Work	k done		1		nth This
1		Undergro	una	Build cupb		ar.	-		
	Works	hop		worknen 's				30	8
:		Construction Work		Alterntion	nw.	40	5		
3	. Yangeh	ow Depot		Repair roof				70	74
4	. DD off	100		Alterations to monthly staff lavatory					ú
	. Fearon	Substat1	on	Repairing brick column of Transformer Bank No.2 chamber				-	10
	Hil								
				III CONSTR	WCT1CH				
				(A) SELV	vices			cr>a	WTD Too
ŀ	louse Serv	1.ces						SPC	WDPC
_	Connection					<b>.</b>		345	211
	Disconnect Let incren							87 258	23 188
				• • • • • • • • • • • •	• • • • • • •			200	24/4
_	iunicipal Connection							16	_
(	Johnset Lon Disconnect							-	-
1								16	

			• •		-	
MATERIAL STREET	N POWER COMPANY		- 23 -	<b>@</b>		
(3)	Private Ligh	ting			50	ec winec
	Connections Disconnection Not increase					4 3 32 3 .3 -
			(9) OVERHEAD LINES			
(1)	Erection			Route les	net b	Number of
		Ar en	Location	yard:		_ poles
	6.6 kV					
	3-vire	SPC	MRC central Chemical Works	27		1
	**	WDPC	48 Kong Ka Jao	90		-
	n	17	139 & 141 Chunshan Road	310		-
		19	Five Star Gt. Western Road	29		-
	380 V	**	Lincoln Av. & Warren Road	23		-
	4-wire	STC	*****			
	1-4116	31.0	1504 Yangtazapoo Road	8 <b>7</b>		-
	**		Delhi Substation Area	277		=
(2)	Salvage		Sing Hun Brann Mill	54		-
	ö.ö kV					
		SPC	Vatabulat tonia			
	-	NDPC	Kotobuki Lumber Co.	34		-
	n	HTM C	Pive Star St. Western Road East Tee An Pant PT	94		-
	380 V		issue the All Part, Pr	32		-
	4-wire	19	Rubicon Road II of Hungjao Rd	433		
(3)	Poles		in or managina na	45.5	SPC	MDPC
	••		• • • • • • • • • • • • • • • • • • • •		2	33
		request	end expense of the Municipality .		8 2	28 -
			(C) UNDERGROUND LINES			
(1)	Installation		· ····			
	Cable - S		yds, .057 sq in, 3-core, 6.6 kV c Control Chamical Works, Yangtono		արթ1։	y to
	TV:	DFC 11 Eas	ydn, .057 sq in, 3-core, 6.6 kV cost Tao An Pang PT, off Edinburgh R	able for :	արթ1	y to
	Jointa and 2 potheads -	IPC One	o S.6 kV pole pothend and one 6.6 : supply to MRC Control Chemical E	transfe	rmer tszej	pothend con Rond
	IVI	OPC One	o 66 kV pole pothend and one 6.6 k nupply to Rast Tse An Pang PT. of	v transfor	mor ;	othend
(2)	Salvage					
		IPC 17 Kot	yds, .075 sq in, 3-core, 6.5 kV cookki Lumber, Yengtazopec Rond	blo salva	ged 1	'rom
	n.T	PC 1311				

STANSHAL POWER COMPA

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Joints and pothead - SFC Onc 6.6 kV pole pothead and one 6.6 kV transformer pothead salvaged from Kotobuki Lumber, Yangtazepoo Road

WDPC N11

(3) <u>Doviation</u> Nil

# (D) SUBSTATIONS

				% com	pleted
		Substation	Work done	Leat Month	This Month
SPC	1.	Sing Yue No.1, West Soochow Road	Installation of 6.6 kV bus couple gang operated links	45	70
	2.	Standard Shirts Fac- tory, Tongshan Road	Installation of 6.6 kV supply	30	30
	з.	Dah Kong Mill, Tengyueh Road	Change Al & A2 OCBs from 300A to 600A rating	25	50
	4.	Chase Bank, Szechuen Road	Removal of 1-225 kVA trans- former	_	50
	٤.	Tonquin	Replacement of 1006 kVA Local Transformer due to faulty tap changer	-	75
	6.	Who Fong Worsted, Linching Road	Installation of LV network feeder	_	10
WDPC	1.	Union Syndicate, off Connaught Road	Conversion to 6.6 kV supply	30	50
	2.	Kwang Sing P & D, Koswick Road	Conversion to 6.6 kV supply	45	75
	3.	Chung Woo PM, Tungin Road	Conversion to 6.6 kV supply	_	30

# (E) BULK SUPPLY METERING

	Work Done		SPC	WDPC	Totel
Motoring	equipment	installed	5	2	7
"	n	removed	1	-	1
n	n	changed	1	2	3

MARCH!	11 FEBR	EN COMPANY	- 25 - F) VARIOUS WORK		
		1.	American Stoffe	, comp	lated
		Naturo of Work	Location	Last Month	
SPC	1.	Redrumning of cables from rotton to good reels and repair to cable drums	Fearon Depot	75	100
	2.	Propers material for Underground Emergency Store	Fouron Underground Workshop	-	-
	3.	Making 23 kV "H" type .4 sq in duct joint sample	Fearon Underground Workshop	Oc.	80
	4.	Wiring for lighting and power lines in Engineerin Model Workshop	w Forry Substation	90	100
	<b>೬</b> •	Installation of joints and pothends for smoke signal dovice		-	100
	6.	Reconnect PL for Bureau of Public Works	Pontoon 11	-	100
	7.	Laying new drain pipe and cleaning the pend	17 Lucerno Hona	-	100
	8.	Ropairing FB-1 PL cable pothead	Gardon Bridge, The Bund	-	100
	9.	Manufacture of reinforcing clamps for 4'-0" copper sleeve	; Fouron Substation Workshop	-	75
	10.	Modification to MG 1 starting panel	Yangchow Substittion	-	100
	11.	Manufacture of PL regulate plug for Fearen Substation		-	100
	12.	Manufacture of spare motor vehicle engine stand	Fearon Garage Workshop	-	100
	13.	Ropair main driving pulley on machine shaft	Fearon Substation Workshop	-	100
WDPC		N11			
		IV MOR	K DONE FOR CONSUMERS		
		Location	Work done	% complet	00
BPC	1.	Kinochow Road a	-route ex-compressor cable, and supply labour and material or Consumer's 40 kVA Bost-once Pr	100	
NDPC		Nil			

- 26 -STAPF CHAIRES Engineering and Office Staff Tong P. Y. (Misa) Stenographer Engaged WDPC liono Monthly Rate Staff SPC Typist (Temporary) Service terminated Chong Yun Shong MDPC None Daily Rate Staff SPC RХ Labourer Engeriod a COX OSX CUC 16 10 Improver Lincman Labourer CZ-CX. Rootened Deceased Service terminated CSFZ CSFZ Fitter CSF2 WDPC None (E) ACCIDENTS Fatul or Disabled Location of Employee permanent Description of accident for the injured injured period of WOL 5 Kinochow Road WOL 5 fell to the ground Jan South of Con-naught Road, and suffered injuries when our vehicle was hit fronting House No.419 Einonear the tail-end by an outsider truck backing ahow Road out from an alleyway Jan WOL 16 In front of A ladder was suddenly No 2 days blown away from a pole by high wind and fell House 141, Chun Shan Road on the head of WOL 16 MISCELLANEOUS Nil (A) Theft of Materials (In SPC and WEPC Areas)

MANGHAI POWER COMPARY

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# VII TRANSPORT

The following cutlines the activities of the Transport Division during the month.

# (A) MOTOR VEHICLES

# (1) Summary

	Passenger	Fick-ups	Station	Vans	Trucks	Special vehicles*	Trailors	
Vohiclos	cars	FICK-Up3	микона			Activities.		i
in Operation	ຽຄ	9	2	১	15	3	4	
In Storage	-	** 1	-	-	-	-	4	

- \* Oil tanker and 20-ton lorries
- \*\* Under conversion to Station Wagon

# (2) Operating Data on Meter Venicles

			GASOLINE							
	No.		Is	ยนย		nec	11110	-	VAOL	_
Type	Berv	100	(gallons)		(gallons)		v.np		np.	
ì	Jan	Doc	Jan	Dec	Jun	Doc	Jan	Doc	Jan	Dec
			6,322	6,499	6,322	6,489	75.660	75,945	12.0	11.7
Passenger cars	55	1.5	166	171	166	171	1,711	1,974	10.3	11.5
Station wagons	2	2		1,029	11613	1,029	11.103	12,723	12.8	12.4
Pick-ups	9	1.0	868		247	233	2,143	2,222		9.5
Trucks (1,-ton)	2	2	247	233		1,296	0.478		7.1	6.8
Trucks (3m-ton)	ن ا	1 9	1,139	1,296	1,199	299	1,227	1,251	4.3	4.2
Lorries (6-ton)		2	282	299	282		41	149	1.3	1.4
Lorries (SO-ton)	2	22	36	109	31	109	11.	2	~~~	1.0
011 tanker truck	1	1	-	3	i	2	, 000	1,682	7.8	7.
Meter Vans	2	2	164	141	164	141	1,286	1,002	7.0	
Trouble Section	1	1					0.16.	1 1/4/17	6.2	5.
Anu	ì	1	159	221	159	221	990	1,137	8.5	9.0
Cooker vans	2	2	405	365	405	365	3,429			6.
Bup	2	2	626	56.7	626	567	4,085	3,719	6.5	٠.
Trailors	8	в	i -	-	-	-	-			
Total	97	98	10,474	10,933	10,469	10,922	110,133	112,391	10.5	10.

#### HANGAL POWER COMPANY

# (3) Maintenance Works on Motor Vehicles

m		oral haul		Daorgency Overhoul		adjustments		Repairs after			
Туро	comp.	loted	con	loted	and r	and repairs		dent	Brookdow		
	Jan	Doc	Jun	Doc	Jan	Doc	Jan	Dec	Jan	Dec	
Passenger cars	1	1	3	3	106	95	1	10	10	11	
Station wagons	-	-	-	-	5	4	-	-	-	-	
Pick-ups	-	-	l –	-	28	26	1	1	2	3	
Trucks (12-ton)	-	-	l –	1	8	16	-	-	1	3	
Trucks (S5-ton)	-	-	l –	1	16	24	i - i	3	1	ú	
Lorrice (6-ton)	-	-	-	-	5	5	- 1	-	-	1	
Lorries (20-ton)	-	_	-	-	-	1	-	-	-		
Oil tanker	-	-	-	-	-	-	-		-	-	
Meter Vans	-	i -	-	-	12	7	-	-		-	
Trouble Section van	-	-		-	2	1	- 1	-	- 1	-	
Gooker van	-	-	-	-	-	- 1	-	-	-	-	
Buo	-	l - i		1	6	4	1	2	1	2	
Trailors	-	-	-	- 1	-	1	-	-	-	-	
Total	1	1	3	6	188	178	3	15	15	26	

# (4) Motor Vehicle Engine Lubricating Oil

Deventuation	Issue (U	i (milona)	
Description	Jan	Dec	
Cars	144	142	Fouron stock at the
Trucks	160	179	end of this month:
Other purposes	15	18	1,771 US gallens of SAE 30
Total	339	339	

# (5) Motor Vohicle Breakdowns

Classification	Canes	7.
Electrical equipment	9	50.0
Engino	-	-
Channin	1	5.5
Fuel system	5	27.8
Tire and tubes	3	16.7
Total	18	100.0

Frequency: 6,118 miles per breakdown.

SHE HEHAI POWER COMPANY

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(B) MAJOR HAULAGE JOHS
TRANSFORMERS, MOTORS, AND POLES

		Equipmo	nt	Moved	<u> </u>	3120 of	Ean-
Jnite	Capacity KVA/HI	III a 1 crist	Description	From	То	truck	dayı
1	625	16,800	Transformer	Tonquin Substation	Ferry Substation	20, 6	22
8		4,480	O.P. Polu	Woodcraft Works	Haiphong Stores	3 <u>û</u>	8
2		18,056	Concrete Structure	kiverside Stores	Haiphong Stores	6	14
1	225	5,417	Transformer	Fearon Substation	:RC Chemical CT	20	10
10		9,000	Concrete Base	Riverside Stores	Haiphong Stores	6	А
10	[	9,000	п	**	"	6	8
3		7,200	п	18	**	6	8
1	625 108	13,000 15,000	Transformer	Fearon Stores Fearon Substation	Fearon Substation) Ferry Substation )	20	25
٤.	[	6,500	Concrete Bus.	Riversias Stores	Haiphong Stores	6	3
1	825	3,530	Transformer	Fearon Substation	Hast Tse An Pang		
1	625	2,500	п	East Tso An Pans, FT		6	10
1 16	50	2,000	Concrete Base	Riversiae Stores	Hungjao Road ) Hungjao Road	6, 6	16
16		20,400	4	"	Hungjao Roud	6, 6	16
1	125	3,530	Transforaur	Hotoburi Lumber Of	Fearon Stores	6	7
1	80	2,240	Motor	Fearon Stores	Ta Yu Yuo Oil Mill	6	7
1	80	2,240	ų	Ta Yu Yue Oil111	Consumers' Eng. Dept. Workshop	Ġ.	ß
22	225	7,940	Transfermer	Riverside Workshop	Fearon Stores	6	10
1	125	3,310	н	Fearon Stores	Weinan Substation	32	7
6		10,400	Concrete Berry	Riverside Workshop	Hungjao Road	6	8
ı	200	4,490	Motor	Shanghai Waterworka Yangetzepoo W/shop	Sinza Pump Station	) 6	20
1	225		Transfermer	Riverside Workshop	Fearon Stores	, 7	16
2		1	O.P. Polo	Woodcraft Works	Riverside Stores	"	10
1	325	4,465	Transformer	Fearon Stores	Janefield-Kinnour PP	20	8
1	205	5,130	i	Jessfield-KinnearlT		<b>?</b> }	0.0
1	225	5,350	4	Riverside Workshop	Hanyang Rubber OT	20	30
1.	1,000	16,800	li .	Tonquin Substation	Fearon Stores	20	40
1	625	16,800	1	Fouron Substation	Dolhi Substation	20	30
4		8,000	O.P. Pole	Wooderaft Works	Riversiae Stores	6	16
	TOTAL:	254,168					348

#### (s.) otherwork

Iten	Type of Freight	Weight lbs	Sumber of Trips	Man- days	Run
1	Transformers, Motors, and Poles	254,168	31	348	454
2	Mincollaneous Material	679,000	68	284	1,761
3	Coul Briquettes	400,000	ي1	Contr- uctor	1,536
	Total	1,333,168	190	632	3,751

Total in Ton Milee: Total Weight 1bs x Total Miles

2000 1bs x Total Trips x 2

1,233,168 x 7,751 = 6,600 Ton Miles

BHANGHAI FOWER COMPAN

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# (c) BICYCLES

# (1) Taxi Bicycle and Tricycle Service

Department	Туре	No. in service	Issue for temp use	Issued as taxi	Remarks
Transport Division	Bicycles Tricycles	54 7	20 7	12	- -
Motor Department	Bicycles Tricycles	24 -	-	- !	-

# (2) Bicycle and Tricycle Maintenance

Туре	No. in	Gene	ral haul		or tment s opairs	Rout	ine etion	Ropu aft acci	or
		Jan	Duc	Jan	Doc	Jan	Doc	Jan	Doc
Company's bicycles	243	1	2	68	74	20	18	_	-
Employeen' bicycles	25	-	-	7	5	5	4		-
Tricycles	10	-	¦ -	3	2	-	-	+	-
Pedicabs	_*	-	· -	-	3	-	-	-	-
Trailers	2	-		-	-	-	-	-	i -
Total	280	1	2	78	84	25	22	-	-

<sup>\*</sup> Three pedicabs sold on January 7th.

# (D) HANDCARTS

m	No. in	lo. in	llc. in	Munber	in repair
Туре	Service	Storage	Construction	Maintenance	After Accident
Large 2-ton	1	2	-	-	_
Standard 1-ton	9	13	-	-	-
House Service	3	1	-	_	-
Baluncing	3	1	-	-	-
Total	16	17	-	-	

# SHANGHAI POWER GOMBARY

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# (E) TRANSPORT WCRESHOP

	WORK DOME	· · · · · · · · · · · · · · · · · · ·	
Shop	For Transport Div.sion - 82.8%	For other 11	visions - 17.2%
Vulcunizing	Repaired for - Notor vehicles: 11 tires; 131 tubes Bicycles: 14 tires; 10 tubes	228	19.2
Tailor	Repairs to Eanufacture of 44 Sent covers 56 upholstery 1 upholstery 37 uniforms	18	1.4
Point	Repainted: 1 motor car; 1 bieyele Touched up: 140 motor for jona; 35 bieyele joha	316	26 <b>.</b> 8
Welning	Repaired by welding - 51 motor vehicle occies 2. enwine parts 32 chassis parts	201	16.9
Battery	Replated: 6 Dattories Revalred: 20 " Charged: 204 "	-	-
Blacksmith	Forged: 41 new jurts Repaired: 141 dama.ed parts	20	1.7
Whitesait:	Repaired 33 vehicle resistors 25 bumpers 22 bodics 35 doors 23 windows 5 various small parts	3	<b>0.2</b>

# Approved For Release 1999/09/21 : CIA-RDP80-00809A000500550002-6

<del></del>	1:0	RK DOILE	<del> </del>	
Shop	Transport Division	Other div	isions   % of total	
	Transport Division	Lianhours	A of total	
Electrical	Repaired or overhoused - 15 starters 13 dynamos 61 sorns	-	-	
Carponter	Repairs to 31 vohicle bodies	ů de	volving chairs sks tension ladders	
		375	31.5	
Machine	Repairs to 70 engine parts 235 other parts Manufacture of 61 engine parts 257 other parts	27	2.3	
Lubrication Centre	Motor vehicles: Oil changed: 66 Guneral inspection: 66 General lubrication: 66	-	-	

(F) ACCIDENTS

# (1) Actor Venicles

- <del></del>	Voh	cle	Location	Description		mage t		SPC driver	Port inju	rod
Date	Туре	‼o.	of accident	of accident	Mujor			to blumo?	Staff	Out- sidors
Jun 3	Pass car	17520	Yane;tazepoo	Knocked Lown pedestrian	-	r	-	No	No	Yes
Jan 9	ly-ton van	30131	Fearon Road	Knocked down pedestrian	-		x	lic	lio	Yes
Jan 13	Рана саг	10657	Burkill W RC	Collided with	-	-	x	Yes	No	No
Jun 13	lg-ten truck	30044	Kiaochow ka	Collided with	<u>.</u> .	-	x	No	Yes	No
Jun 16	Pick-up	30049	Markhaa Rd	Collided with	-	х	-	No	lio	Ho
Jon 19	Pass car	54127	Earn Road	Strick by car	-	X	-	No	No	No
Jan 20	Fans car	10659	II Szechuen Rond	Pedmetrian struck by car	-	-	ī	llo	0.1	Yes
Jan 21	Риня саг	17520	Bubbling Well Road	Collined with pedicub	-	-	x	!!o	No	lio
Jan 23	Pass car	52464	Ave Joffre	Collided with	-	x	-	No	No	No
Jun 26	bus	33602	Bubbling Well Road	Struck by podicab		x	-	No	No	Но

Frequency: 11,013 .nles per accident.

(L) Bicycles and Pricycles

Hone

# (7) Details of Addigents involving general public

Date	Location	out Ba	# Val	Yele	ou	jury to tsiner		Remarks		
	or addident	Major Minor Hone !		of accident Major Minor Mone Major M		Major Hinor Ho		Minor	None	
Jan. 3	Yangtazopoo	-	-	_	r			Futul		
Jun 9	Fouren Rosa				-	X.				
J.u1 13	Burkill W Road	-	1	-			х_			
Jini 13	Kinochow Rond	-	-	λ.	-	<u></u>				
Jan 18	Markham Road	-	-	i x	-		x			
Jan 19	Ezra Road	-	-	х	-		ı			
Jan 20	N Szechuen Road		-	-	-	X				
Jun 21	Bubbling hell Hi		x		L		7.			
Jan 22	Avenue Joil're	T -	-	۱ .		-	I			
Jan 113	Bubbling Well Ru	-	-	x	-	-	1			

(4) Staff

Hone

(G) STAFF

(1) Supervisory Staff

No change

(2) Cherical Staff

No change

(3) Monthly Hate Staff

!lo change

(4) Daily Rate Labour

No change

S. L. Dong Distribution Engineer ... EM THEMAL PRIMER COMPANY

Shoughoi, February 4th, 1948.

THE REAL PROPERTY.

The General Manager:

# METER AND TEXTING DEFARMENT LARCENY OF ELECTRICITY MONTHLY RUPORT FOR JANUARY, 1948.

## Accounts Office Queries :

One case of larcony was detected, and revenue emounting to CH.\$29,400,000 has been recovered.

One case of damaged meter was found. The cost of repairs, etc., amounting to CI.\$385,000 has been paid by the consumer.

#### Meter Headers' Reports :

One case of larceny was detected, and revenue amounting to CH.26,316,000

Six cases of damaged metera were found when following up those reports. The cost of repairs, etc. amounting to Cl. \$4,395,000 has been paid by the

# Route Meter Investigation :

One came of largeny was detected, and revenue amounting to Q1.816,300,000

has been recovered.

Three cases of damaged meture were found. The cost of repairs, etc., executing to CH.\$1,408,000 has been paid by the consumers.

## Power Meter Investigation :

Three cases of larcomy were detected, and revenue amounting to CN\$65,560,000

Two cases of demaged meters were found. The cost of repairs, etc. amounting to Q1.92,628,000 has been paid by the consumers.

## Small Area Investigation :

One case of damaged meter was found. The cost of repairs, etc., amounting to CH. \$786,000 has been paid by the consumer.

# Miscallancous:

Seventeen cases of damaged maters were reported by Installation Section's The cost of repairs, etc., amounting to CV.49,427,000 has been paid by the consumers.

# Danaged or Missing Main Fuse Box Load Souln :

Porty cases of above infringement of Company's Regulations have been handled by the Installation duction. Fees paid by consumers total C1\$3,400,000.

MANGHAI POWER COMPANY

#### Bummary:

Six cases of larcony have been detected and settled during the month together with thirty cases of damaged meters and/or associated equipment.

Revenue amounting to CN. \$139,205,000 has been recovered, or which:-

- a. CN. \$117,576,000 represent recovered revenue.
- a. G1.417,376,000 represent recorded format.
   b. G4.3 19,229,000 represent an estimated cost of repairs to danaged moters and associated equipment.
- c. Cit.\$ 2,400,000 represent fees paid for damaged or missing main fuse box lend seals.

### Estimated Unmetered Consumption :

Forty cases of unmetered consumption due to defective or damaged meters were dealt with on Consumers' Accounts Inspect Orders during the month and revenue amounting to CN.\$18,492,000 was recovered.

NOTE: -

Nine cases of unmetered supply taken by various units of the Chinese Armed forces have been reported by the Installation and Investigation Sections' staff and Meter Renders during the month. These have been passed to the Installation Section for action in concert with Consumers' Englacor's Department.

\_\_\_\_\_\_\_

For B. Jacobs.
Moter & Testing Engine

AVG. zkc

kas

# 1A:TAEY, 1948

AULTOIS OF OUR! PEOVAND BY BETHATED LOSS OF REVENTE PROMOCNICATES DYLAND IN LARGENY OF RESTRUCTY AND FOR DAMAGED OR MISSTRIS FOREIS AND ENORGY MAIN FOREIGHTS.

EHPNEHAI FOWER COMPANY

3.P.C. & W.D.P.C.

TOTAL	ਲੰ	29.785,000	10,711,000	17,708,000	68,389,000	785,000	11,627,000	139,235,000
Broken Mein Puse Saale	<b>♣</b>	•	-			-	2,400,000	2,400,000
Fert Payment	<b>\$</b> :0	•	_	1		•	_	-
Manager 1981 1981 1981 1981 1981 1981 1981 198	<b>£</b> :5	;	;	-				:
Denged Moters	er E	385,000	4,395,000	1,408,050	2,828,000	222, ear	3) <b>427</b> ,000	19,229,000
Tempered	<b>₹</b>			1	. [		1	
Jumpere	# E	362,004,65	6,316,000	16,366,000	200, 286, 29	: :	. •	117,576,000
HAITHE OF DWESTICATION		Accounts Office Queries	Mister Pasders' Reports	Baute Meter Investigation	Fower Mater Investigation	Stall Area Investigation	Macelleneous	Total

W.D.P.G. (Included in above figures):

-	-						
Accounts Office queries		;	,		,		•
Mater Pasders' Reports		1	265,000	1		-	28
Foute Moter Investigation	16,300,000	;	715,000			1	10,71
Miscallensous			6,164,000			960,000	7,12
(1 4) (1	16,300,500	t	200'\$95'4	ł	,	300'096	24,72

					S.P.C. & W.D.P.C.	W.D.P.C. (unly)
ding J	fenuery	nuery 31st, 1948 .	1948	Month ending Jenuary 31st, 1948	000,803.801£.150	G: \$ 24,724,000
ding	Fauery	3131.	1948	Fonths anding Jenuary 31st, 1948	G: \$372, 436,040	-'006'030'9IT\$'ID

SHANGHAI POWER	COM	PANY					1														*				
		TOTAL	,	27 6		,	,  -	4		1	1 5	3			7	100	•		Ţ		o on		2 868		3
		Der aged and/or T	-	1 4	0 60	3 0					3	-		-	,	-				0	æ	A. D. P. C. (only)	Franissa Letera Irregularities	952 218	14,999 4,108
	CASTES	Tempered De	┼			-	  ,	-	,					-	-				-	-			ـــــا	7.57	10,776 14
	Lincery	Juppers	-		1	3	-			,	φ,				-	-1	,			-	1		es Cases	38	433
JAWET 1948		IPPECTARIA	883	2	480	4.6	95	225	22	7.7	957			<u>্</u>		34.	N			٥	218	3.F.C. + 3.D.F.C.	Irregularities	957	17,268
•			1069	o	1944	112	r)	17	37.98			578	2	571	164	r)	2	- (c)	552	4.0	es Meters	3,798	7 59,793		
		PREMISES RETRES INSPECTED INSPECTED	1617	o	1369	65	355	7c	eo	17	2344		ires, :	193	2	+23	87	01	-1	·ω	252		Frentses	9 2,944	52,747
ଓ ହିପାଲ + 'ଓ ଅଟେ		NATURE OF INVESTIGATION	Accounts Office Quering	Meter Readers' Reports	Boute Meter Investigation	Power Meter Investigation	Stall Area Investigation	Casuel Visits - Day	Informars' Letters	Miscellencous	Totel		".D.F.C. (Included in scove figures,	Accounts Office weries	Meter Readers' Berorts	Poute Mrter Investigation	Scall Area Investigation	Casual Visits - Day	Informers' Lotters	Miscellanscus	7018]			Month ending Jan. 31st. 1948	12 Months ending Jan, 31st, 1948